

Pensieve header: Verifying the genus conjecture.

Loading the genus data obtained from <https://knotinfo.org/>:

```
In[ ]:= SetDirectory["C:\\drorbn\\AcademicPensieve\\Projects\\Theta"]:
```

```
In[ ]:= << Theta.m
```

Loading KnotTheory` version of October 29, 2024, 10:29:52.1301.

Read more at <https://knotinfo.org/> (KnotTheory`)

```
In[ ]:= GenusData = Cases [
  Import [
    "C:\\drorbn\\AcademicPensieve\\Projects\\Theta\\GenusInfoFromKnotInfo.org.csv"] [[2
    ;;]],
  {K_, g_} => (KnotGenus[Evaluate[Knot@K]] = ToExpression@g),
```

Out[]:=

3

```
In[ ]:= FiberedKnots = Cases [
  Import [
    "C:\\drorbn\\AcademicPensieve\\Projects\\Theta\\FiberedInfoFromKnotInfo.org.csv"],
  {K_ "v"} => Knot@K
```

Out[]:=

```
{Knot[3, 1], Knot[4, 1], Knot[5, 1], Knot[6, 2], Knot[6, 3], Knot[7, 1], Knot[7, 6], Knot[7, 7],
Knot[8, 2], Knot[8, 5], Knot[8, 7], Knot[8, 9], Knot[8, 10], Knot[8, 12], Knot[8, 16], Knot[8, 17],
Knot[8, 18], ... 5363 ..., Knot[13, NonAlternating, 5070], Knot[13, NonAlternating, 5073],
Knot[13, NonAlternating, 5074], Knot[13, NonAlternating, 5078], Knot[13, NonAlternating, 5079],
Knot[13, NonAlternating, 5081], Knot[13, NonAlternating, 5082], Knot[13, NonAlternating, 5083],
Knot[13, NonAlternating, 5084], Knot[13, NonAlternating, 5086], Knot[13, NonAlternating, 5088],
Knot[13, NonAlternating, 5089], Knot[13, NonAlternating, 5091], Knot[13, NonAlternating, 5092],
Knot[13, NonAlternating, 5093], Knot[13, NonAlternating, 5095], Knot[13, NonAlternating, 5106]}
```

Full expression not available (original memory size: 0.6 MB)



```
In[ ]:= Ribbons = {Knot[0, 1], Knot[6, 1], Knot[8, 8], Knot[8, 9], Knot[8, 20], Knot[9, 27],
  Knot[9, 41], Knot[9, 46], Knot[10, 3], Knot[10, 22], Knot[10, 35], Knot[10, 42],
  Knot[10, 48], Knot[10, 75], Knot[10, 87], Knot[10, 99], Knot[10, 123],
  Knot[10, 129], Knot[10, 137], Knot[10, 140], Knot[10, 153], Knot[10, 155]}
```

Out[]:=

```
{Knot[0, 1], Knot[6, 1], Knot[8, 8], Knot[8, 9], Knot[8, 20], Knot[9, 27],
Knot[9, 41], Knot[9, 46], Knot[10, 3], Knot[10, 22], Knot[10, 35], Knot[10, 42],
Knot[10, 48], Knot[10, 75], Knot[10, 87], Knot[10, 99], Knot[10, 123],
Knot[10, 129], Knot[10, 137], Knot[10, 140], Knot[10, 153], Knot[10, 155]}
```

```
In[ ]:= DeltaTable = Table[K -> Theta[K] [[1]], {K, AllKnots[{3, 10}]}
```

Out[]:=

$$\left\{ \begin{aligned} \text{Knot}[3, 1] &\rightarrow \frac{1 - T + T^2}{T}, & \text{Knot}[4, 1] &\rightarrow -\frac{1 - 3T + T^2}{T}, \\ \text{Knot}[5, 1] &\rightarrow \frac{1 - T + T^2 - T^3 + T^4}{T^2}, & \text{Knot}[5, 2] &\rightarrow \frac{2 - 3T + 2T^2}{T}, \end{aligned} \right.$$

$$\begin{aligned}
\text{Knot}[6, 1] &\rightarrow -\frac{(-2+T)(-1+2T)}{T}, \text{Knot}[6, 2] \rightarrow -\frac{1-3T+3T^2-3T^3+T^4}{T^2}, \\
\text{Knot}[6, 3] &\rightarrow \frac{1-3T+5T^2-3T^3+T^4}{T^2}, \text{Knot}[7, 1] \rightarrow \frac{1-T+T^2-T^3+T^4-T^5+T^6}{T^3}, \\
\text{Knot}[7, 2] &\rightarrow \frac{3-5T+3T^2}{T}, \text{Knot}[7, 3] \rightarrow \frac{2-3T+3T^2-3T^3+2T^4}{T^2}, \\
\text{Knot}[7, 4] &\rightarrow \frac{4-7T+4T^2}{T}, \text{Knot}[7, 5] \rightarrow \frac{2-4T+5T^2-4T^3+2T^4}{T^2}, \\
\text{Knot}[7, 6] &\rightarrow -\frac{1-5T+7T^2-5T^3+T^4}{T^2}, \text{Knot}[7, 7] \rightarrow \frac{1-5T+9T^2-5T^3+T^4}{T^2}, \\
\text{Knot}[8, 1] &\rightarrow -\frac{3-7T+3T^2}{T}, \text{Knot}[8, 2] \rightarrow -\frac{1-3T+3T^2-3T^3+3T^4-3T^5+T^6}{T^3}, \\
\text{Knot}[8, 3] &\rightarrow -\frac{4-9T+4T^2}{T}, \text{Knot}[8, 4] \rightarrow -\frac{2-5T+5T^2-5T^3+2T^4}{T^2}, \\
\text{Knot}[8, 5] &\rightarrow -\frac{(1-T+T^2)(1-2T+T^2-2T^3+T^4)}{T^3}, \text{Knot}[8, 6] \rightarrow -\frac{2-6T+7T^2-6T^3+2T^4}{T^2}, \\
\text{Knot}[8, 7] &\rightarrow \frac{1-3T+5T^2-5T^3+5T^4-3T^5+T^6}{T^3}, \text{Knot}[8, 8] \rightarrow \frac{(2-2T+T^2)(1-2T+2T^2)}{T^2}, \\
\text{Knot}[8, 9] &\rightarrow -\frac{(-1+T-2T^2+T^3)(-1+2T-T^2+T^3)}{T^3}, \text{Knot}[8, 10] \rightarrow \frac{(1-T+T^2)^3}{T^3}, \\
\text{Knot}[8, 11] &\rightarrow -\frac{(-2+T)(-1+2T)(1-T+T^2)}{T^2}, \text{Knot}[8, 12] \rightarrow \frac{1-7T+13T^2-7T^3+T^4}{T^2}, \\
\text{Knot}[8, 13] &\rightarrow \frac{2-7T+11T^2-7T^3+2T^4}{T^2}, \text{Knot}[8, 14] \rightarrow -\frac{2-8T+11T^2-8T^3+2T^4}{T^2}, \\
\text{Knot}[8, 15] &\rightarrow \frac{(1-T+T^2)(3-5T+3T^2)}{T^2}, \text{Knot}[8, 16] \rightarrow \frac{1-4T+8T^2-9T^3+8T^4-4T^5+T^6}{T^3}, \\
\text{Knot}[8, 17] &\rightarrow -\frac{1-4T+8T^2-11T^3+8T^4-4T^5+T^6}{T^3}, \text{Knot}[8, 18] \rightarrow -\frac{(1-3T+T^2)(1-T+T^2)^2}{T^3}, \\
\text{Knot}[8, 19] &\rightarrow \frac{(1-T+T^2)(1-T^2+T^4)}{T^3}, \text{Knot}[8, 20] \rightarrow \frac{(1-T+T^2)^2}{T^2}, \\
\text{Knot}[8, 21] &\rightarrow -\frac{(1-3T+T^2)(1-T+T^2)}{T^2}, \text{Knot}[9, 1] \rightarrow \frac{(1-T+T^2)(1-T^3+T^6)}{T^4}, \\
\text{Knot}[9, 2] &\rightarrow \frac{4-7T+4T^2}{T}, \text{Knot}[9, 3] \rightarrow \frac{2-3T+3T^2-3T^3+3T^4-3T^5+2T^6}{T^3}, \\
\text{Knot}[9, 4] &\rightarrow \frac{3-5T+5T^2-5T^3+3T^4}{T^2}, \text{Knot}[9, 5] \rightarrow \frac{6-11T+6T^2}{T}, \\
\text{Knot}[9, 6] &\rightarrow \frac{(1-T+T^2)(2-2T+T^2-2T^3+2T^4)}{T^3}, \text{Knot}[9, 7] \rightarrow \frac{3-7T+9T^2-7T^3+3T^4}{T^2},
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[9, 8] &\rightarrow -\frac{2 - 8T + 11T^2 - 8T^3 + 2T^4}{T^2}, \text{Knot}[9, 9] \rightarrow \frac{2 - 4T + 6T^2 - 7T^3 + 6T^4 - 4T^5 + 2T^6}{T^3}, \\
\text{Knot}[9, 10] &\rightarrow \frac{4 - 8T + 9T^2 - 8T^3 + 4T^4}{T^2}, \text{Knot}[9, 11] \rightarrow -\frac{1 - 5T + 7T^2 - 7T^3 + 7T^4 - 5T^5 + T^6}{T^3}, \\
\text{Knot}[9, 12] &\rightarrow -\frac{(1 - 3T + T^2)(2 - 3T + 2T^2)}{T^2}, \text{Knot}[9, 13] \rightarrow \frac{4 - 9T + 11T^2 - 9T^3 + 4T^4}{T^2}, \\
\text{Knot}[9, 14] &\rightarrow \frac{2 - 9T + 15T^2 - 9T^3 + 2T^4}{T^2}, \text{Knot}[9, 15] \rightarrow -\frac{2 - 10T + 15T^2 - 10T^3 + 2T^4}{T^2}, \\
\text{Knot}[9, 16] &\rightarrow \frac{(1 - T + T^2)(2 - 3T + 3T^2 - 3T^3 + 2T^4)}{T^3}, \\
\text{Knot}[9, 17] &\rightarrow \frac{1 - 5T + 9T^2 - 9T^3 + 9T^4 - 5T^5 + T^6}{T^3}, \text{Knot}[9, 18] \rightarrow \frac{4 - 10T + 13T^2 - 10T^3 + 4T^4}{T^2}, \\
\text{Knot}[9, 19] &\rightarrow \frac{2 - 10T + 17T^2 - 10T^3 + 2T^4}{T^2}, \text{Knot}[9, 20] \rightarrow -\frac{1 - 5T + 9T^2 - 11T^3 + 9T^4 - 5T^5 + T^6}{T^3}, \\
\text{Knot}[9, 21] &\rightarrow -\frac{2 - 11T + 17T^2 - 11T^3 + 2T^4}{T^2}, \text{Knot}[9, 22] \rightarrow \frac{1 - 5T + 10T^2 - 11T^3 + 10T^4 - 5T^5 + T^6}{T^3}, \\
\text{Knot}[9, 23] &\rightarrow \frac{(1 - T + T^2)(4 - 7T + 4T^2)}{T^2}, \text{Knot}[9, 24] \rightarrow -\frac{(1 - 3T + T^2)(1 - T + T^2)^2}{T^3}, \\
\text{Knot}[9, 25] &\rightarrow -\frac{3 - 12T + 17T^2 - 12T^3 + 3T^4}{T^2}, \text{Knot}[9, 26] \rightarrow \frac{1 - 5T + 11T^2 - 13T^3 + 11T^4 - 5T^5 + T^6}{T^3}, \\
\text{Knot}[9, 27] &\rightarrow -\frac{(-1 + 2T - 3T^2 + T^3)(-1 + 3T - 2T^2 + T^3)}{T^3}, \\
\text{Knot}[9, 28] &\rightarrow \frac{(1 - T + T^2)(1 - 4T + 7T^2 - 4T^3 + T^4)}{T^3}, \\
\text{Knot}[9, 29] &\rightarrow \frac{(1 - T + T^2)(1 - 4T + 7T^2 - 4T^3 + T^4)}{T^3}, \\
\text{Knot}[9, 30] &\rightarrow -\frac{1 - 5T + 12T^2 - 17T^3 + 12T^4 - 5T^5 + T^6}{T^3}, \\
\text{Knot}[9, 31] &\rightarrow \frac{1 - 5T + 13T^2 - 17T^3 + 13T^4 - 5T^5 + T^6}{T^3}, \\
\text{Knot}[9, 32] &\rightarrow \frac{1 - 6T + 14T^2 - 17T^3 + 14T^4 - 6T^5 + T^6}{T^3}, \\
\text{Knot}[9, 33] &\rightarrow -\frac{1 - 6T + 14T^2 - 19T^3 + 14T^4 - 6T^5 + T^6}{T^3}, \\
\text{Knot}[9, 34] &\rightarrow -\frac{1 - 6T + 16T^2 - 23T^3 + 16T^4 - 6T^5 + T^6}{T^3}, \text{Knot}[9, 35] \rightarrow \frac{7 - 13T + 7T^2}{T}, \\
\text{Knot}[9, 36] &\rightarrow -\frac{1 - 5T + 8T^2 - 9T^3 + 8T^4 - 5T^5 + T^6}{T^3}, \text{Knot}[9, 37] \rightarrow \frac{(-2 + T)(-1 + 2T)(1 - 3T + T^2)}{T^2},
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[9, 38] &\rightarrow \frac{(1 - T + T^2)(5 - 9T + 5T^2)}{T^2}, \text{Knot}[9, 39] \rightarrow -\frac{(1 - 3T + T^2)(3 - 5T + 3T^2)}{T^2}, \\
\text{Knot}[9, 40] &\rightarrow \frac{(1 - 3T + T^2)^2(1 - T + T^2)}{T^3}, \text{Knot}[9, 41] \rightarrow \frac{(3 - 3T + T^2)(1 - 3T + 3T^2)}{T^2}, \\
\text{Knot}[9, 42] &\rightarrow -\frac{1 - 2T + T^2 - 2T^3 + T^4}{T^2}, \text{Knot}[9, 43] \rightarrow -\frac{1 - 3T + 2T^2 - T^3 + 2T^4 - 3T^5 + T^6}{T^3}, \\
\text{Knot}[9, 44] &\rightarrow \frac{1 - 4T + 7T^2 - 4T^3 + T^4}{T^2}, \text{Knot}[9, 45] \rightarrow -\frac{1 - 6T + 9T^2 - 6T^3 + T^4}{T^2}, \\
\text{Knot}[9, 46] &\rightarrow -\frac{(-2 + T)(-1 + 2T)}{T}, \text{Knot}[9, 47] \rightarrow \frac{1 - 4T + 6T^2 - 5T^3 + 6T^4 - 4T^5 + T^6}{T^3}, \\
\text{Knot}[9, 48] &\rightarrow -\frac{1 - 7T + 11T^2 - 7T^3 + T^4}{T^2}, \text{Knot}[9, 49] \rightarrow \frac{3 - 6T + 7T^2 - 6T^3 + 3T^4}{T^2}, \\
\text{Knot}[10, 1] &\rightarrow -\frac{4 - 9T + 4T^2}{T}, \text{Knot}[10, 2] \rightarrow -\frac{1 - 3T + 3T^2 - 3T^3 + 3T^4 - 3T^5 + 3T^6 - 3T^7 + T^8}{T^4}, \\
\text{Knot}[10, 3] &\rightarrow -\frac{(-3 + 2T)(-2 + 3T)}{T}, \text{Knot}[10, 4] \rightarrow -\frac{3 - 7T + 7T^2 - 7T^3 + 3T^4}{T^2}, \\
\text{Knot}[10, 5] &\rightarrow \frac{(1 - T + T^2)(1 - 2T + 2T^2 - T^3 + 2T^4 - 2T^5 + T^6)}{T^4}, \\
\text{Knot}[10, 6] &\rightarrow -\frac{2 - 6T + 7T^2 - 7T^3 + 7T^4 - 6T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 7] &\rightarrow -\frac{3 - 11T + 15T^2 - 11T^3 + 3T^4}{T^2}, \text{Knot}[10, 8] \rightarrow -\frac{2 - 5T + 5T^2 - 5T^3 + 5T^4 - 5T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 9] &\rightarrow -\frac{(1 - T + T^2)(1 - 2T + 2T^2 - 3T^3 + 2T^4 - 2T^5 + T^6)}{T^4}, \\
\text{Knot}[10, 10] &\rightarrow \frac{3 - 11T + 17T^2 - 11T^3 + 3T^4}{T^2}, \text{Knot}[10, 11] \rightarrow -\frac{4 - 11T + 13T^2 - 11T^3 + 4T^4}{T^2}, \\
\text{Knot}[10, 12] &\rightarrow \frac{2 - 6T + 10T^2 - 11T^3 + 10T^4 - 6T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 13] &\rightarrow \frac{2 - 13T + 23T^2 - 13T^3 + 2T^4}{T^2}, \\
\text{Knot}[10, 14] &\rightarrow -\frac{2 - 8T + 12T^2 - 13T^3 + 12T^4 - 8T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 15] &\rightarrow \frac{2 - 6T + 9T^2 - 9T^3 + 9T^4 - 6T^5 + 2T^6}{T^3}, \text{Knot}[10, 16] \rightarrow -\frac{4 - 12T + 15T^2 - 12T^3 + 4T^4}{T^2}, \\
\text{Knot}[10, 17] &\rightarrow \frac{1 - 3T + 5T^2 - 7T^3 + 9T^4 - 7T^5 + 5T^6 - 3T^7 + T^8}{T^4}, \\
\text{Knot}[10, 18] &\rightarrow -\frac{4 - 14T + 19T^2 - 14T^3 + 4T^4}{T^2}, \\
\text{Knot}[10, 19] &\rightarrow \frac{2 - 7T + 11T^2 - 11T^3 + 11T^4 - 7T^5 + 2T^6}{T^3}, \text{Knot}[10, 20] \rightarrow -\frac{3 - 9T + 11T^2 - 9T^3 + 3T^4}{T^2},
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 21] &\rightarrow -\frac{(-2 + T)(-1 + 2T)(1 - T + T^2 - T^3 + T^4)}{T^3}, \\
\text{Knot}[10, 22] &\rightarrow -\frac{(-2 + 2T - 2T^2 + T^3)(-1 + 2T - 2T^2 + 2T^3)}{T^3}, \\
\text{Knot}[10, 23] &\rightarrow \frac{2 - 7T + 13T^2 - 15T^3 + 13T^4 - 7T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 24] &\rightarrow -\frac{4 - 14T + 19T^2 - 14T^3 + 4T^4}{T^2}, \\
\text{Knot}[10, 25] &\rightarrow -\frac{2 - 8T + 14T^2 - 17T^3 + 14T^4 - 8T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 26] &\rightarrow -\frac{2 - 7T + 13T^2 - 17T^3 + 13T^4 - 7T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 27] &\rightarrow \frac{2 - 8T + 16T^2 - 19T^3 + 16T^4 - 8T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 28] &\rightarrow \frac{4 - 13T + 19T^2 - 13T^3 + 4T^4}{T^2}, \text{Knot}[10, 29] \rightarrow \frac{1 - 7T + 15T^2 - 17T^3 + 15T^4 - 7T^5 + T^6}{T^3}, \\
\text{Knot}[10, 30] &\rightarrow -\frac{4 - 17T + 25T^2 - 17T^3 + 4T^4}{T^2}, \text{Knot}[10, 31] \rightarrow \frac{4 - 14T + 21T^2 - 14T^3 + 4T^4}{T^2}, \\
\text{Knot}[10, 32] &\rightarrow -\frac{(1 - T + T^2)(2 - 6T + 7T^2 - 6T^3 + 2T^4)}{T^3}, \\
\text{Knot}[10, 33] &\rightarrow \frac{4 - 16T + 25T^2 - 16T^3 + 4T^4}{T^2}, \text{Knot}[10, 34] \rightarrow \frac{3 - 9T + 13T^2 - 9T^3 + 3T^4}{T^2}, \\
\text{Knot}[10, 35] &\rightarrow \frac{(2 - 4T + T^2)(1 - 4T + 2T^2)}{T^2}, \text{Knot}[10, 36] \rightarrow -\frac{3 - 13T + 19T^2 - 13T^3 + 3T^4}{T^2}, \\
\text{Knot}[10, 37] &\rightarrow \frac{4 - 13T + 19T^2 - 13T^3 + 4T^4}{T^2}, \text{Knot}[10, 38] \rightarrow -\frac{4 - 15T + 21T^2 - 15T^3 + 4T^4}{T^2}, \\
\text{Knot}[10, 39] &\rightarrow -\frac{2 - 8T + 13T^2 - 15T^3 + 13T^4 - 8T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 40] &\rightarrow \frac{(2 - 2T + T^2)(1 - T + T^2)(1 - 2T + 2T^2)}{T^3}, \\
\text{Knot}[10, 41] &\rightarrow \frac{1 - 7T + 17T^2 - 21T^3 + 17T^4 - 7T^5 + T^6}{T^3}, \\
\text{Knot}[10, 42] &\rightarrow -\frac{(-1 + 3T - 4T^2 + T^3)(-1 + 4T - 3T^2 + T^3)}{T^3}, \\
\text{Knot}[10, 43] &\rightarrow -\frac{1 - 7T + 17T^2 - 23T^3 + 17T^4 - 7T^5 + T^6}{T^3}, \\
\text{Knot}[10, 44] &\rightarrow \frac{1 - 7T + 19T^2 - 25T^3 + 19T^4 - 7T^5 + T^6}{T^3}, \\
\text{Knot}[10, 45] &\rightarrow -\frac{1 - 7T + 21T^2 - 31T^3 + 21T^4 - 7T^5 + T^6}{T^3},
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 46] &\rightarrow -\frac{1 - 3T + 4T^2 - 5T^3 + 5T^4 - 5T^5 + 4T^6 - 3T^7 + T^8}{T^4}, \\
\text{Knot}[10, 47] &\rightarrow \frac{1 - 3T + 6T^2 - 7T^3 + 7T^4 - 7T^5 + 6T^6 - 3T^7 + T^8}{T^4}, \\
\text{Knot}[10, 48] &\rightarrow \frac{(1 - T + 2T^2 - 2T^3 + T^4)(1 - 2T + 2T^2 - T^3 + T^4)}{T^4}, \\
\text{Knot}[10, 49] &\rightarrow \frac{3 - 8T + 12T^2 - 13T^3 + 12T^4 - 8T^5 + 3T^6}{T^3}, \\
\text{Knot}[10, 50] &\rightarrow -\frac{2 - 7T + 11T^2 - 13T^3 + 11T^4 - 7T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 51] &\rightarrow \frac{2 - 7T + 15T^2 - 19T^3 + 15T^4 - 7T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 52] &\rightarrow \frac{2 - 7T + 13T^2 - 15T^3 + 13T^4 - 7T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 53] &\rightarrow \frac{6 - 18T + 25T^2 - 18T^3 + 6T^4}{T^2}, \\
\text{Knot}[10, 54] &\rightarrow \frac{2 - 6T + 10T^2 - 11T^3 + 10T^4 - 6T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 55] &\rightarrow \frac{5 - 15T + 21T^2 - 15T^3 + 5T^4}{T^2}, \\
\text{Knot}[10, 56] &\rightarrow -\frac{2 - 8T + 14T^2 - 17T^3 + 14T^4 - 8T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 57] &\rightarrow \frac{2 - 8T + 18T^2 - 23T^3 + 18T^4 - 8T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 58] &\rightarrow \frac{(1 - 3T + T^2)(3 - 7T + 3T^2)}{T^2}, \text{Knot}[10, 59] \rightarrow \frac{(1 - 3T + T^2)^2(1 - T + T^2)}{T^3}, \\
\text{Knot}[10, 60] &\rightarrow -\frac{(1 - 3T + T^2)(1 - 4T + 7T^2 - 4T^3 + T^4)}{T^3}, \\
\text{Knot}[10, 61] &\rightarrow -\frac{(1 - T + T^2)(2 - 3T + T^2 - 3T^3 + 2T^4)}{T^3}, \\
\text{Knot}[10, 62] &\rightarrow \frac{(1 - T + T^2)^2(1 - T + T^2 - T^3 + T^4)}{T^4}, \text{Knot}[10, 63] \rightarrow \frac{(1 - T + T^2)(5 - 9T + 5T^2)}{T^2}, \\
\text{Knot}[10, 64] &\rightarrow -\frac{(1 - T + T^2)(1 - 2T + 3T^2 - 5T^3 + 3T^4 - 2T^5 + T^6)}{T^4}, \\
\text{Knot}[10, 65] &\rightarrow \frac{(1 - T + T^2)^2(2 - 3T + 2T^2)}{T^3}, \text{Knot}[10, 66] \rightarrow \frac{(1 - T + T^2)(3 - 6T + 7T^2 - 6T^3 + 3T^4)}{T^3}, \\
\text{Knot}[10, 67] &\rightarrow -\frac{(-2 + T)(-1 + 2T)(2 - 3T + 2T^2)}{T^2}, \text{Knot}[10, 68] \rightarrow \frac{4 - 14T + 21T^2 - 14T^3 + 4T^4}{T^2},
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 69] &\rightarrow \frac{1 - 7T + 21T^2 - 29T^3 + 21T^4 - 7T^5 + T^6}{T^3}, \\
\text{Knot}[10, 70] &\rightarrow \frac{1 - 7T + 16T^2 - 19T^3 + 16T^4 - 7T^5 + T^6}{T^3}, \\
\text{Knot}[10, 71] &\rightarrow -\frac{1 - 7T + 18T^2 - 25T^3 + 18T^4 - 7T^5 + T^6}{T^3}, \\
\text{Knot}[10, 72] &\rightarrow -\frac{2 - 9T + 16T^2 - 19T^3 + 16T^4 - 9T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 73] &\rightarrow \frac{1 - 7T + 20T^2 - 27T^3 + 20T^4 - 7T^5 + T^6}{T^3}, \\
\text{Knot}[10, 74] &\rightarrow -\frac{(-2 + T)(-1 + 2T)(2 - 3T + 2T^2)}{T^2}, \\
\text{Knot}[10, 75] &\rightarrow -\frac{(-1 + 3T - 4T^2 + T^3)(-1 + 4T - 3T^2 + T^3)}{T^3}, \\
\text{Knot}[10, 76] &\rightarrow -\frac{(1 - T + T^2)(2 - 5T + 5T^2 - 5T^3 + 2T^4)}{T^3}, \\
\text{Knot}[10, 77] &\rightarrow \frac{(1 - T + T^2)^2(2 - 3T + 2T^2)}{T^3}, \quad \text{Knot}[10, 78] \rightarrow -\frac{(1 - T + T^2)(1 - 6T + 9T^2 - 6T^3 + T^4)}{T^3}, \\
\text{Knot}[10, 79] &\rightarrow \frac{1 - 3T + 7T^2 - 12T^3 + 15T^4 - 12T^5 + 7T^6 - 3T^7 + T^8}{T^4}, \\
\text{Knot}[10, 80] &\rightarrow \frac{3 - 9T + 15T^2 - 17T^3 + 15T^4 - 9T^5 + 3T^6}{T^3}, \\
\text{Knot}[10, 81] &\rightarrow -\frac{1 - 8T + 20T^2 - 27T^3 + 20T^4 - 8T^5 + T^6}{T^3}, \\
\text{Knot}[10, 82] &\rightarrow -\frac{(1 - T + T^2)^2(1 - 2T + T^2 - 2T^3 + T^4)}{T^4}, \\
\text{Knot}[10, 83] &\rightarrow \frac{2 - 9T + 19T^2 - 23T^3 + 19T^4 - 9T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 84] &\rightarrow \frac{(1 - T + T^2)(2 - 7T + 11T^2 - 7T^3 + 2T^4)}{T^3}, \\
\text{Knot}[10, 85] &\rightarrow \frac{(1 - T + T^2)(1 - 3T + 4T^2 - 3T^3 + 4T^4 - 3T^5 + T^6)}{T^4}, \\
\text{Knot}[10, 86] &\rightarrow -\frac{2 - 9T + 19T^2 - 25T^3 + 19T^4 - 9T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 87] &\rightarrow -\frac{(-2 + T)(-1 + 2T)(1 - T + T^2)^2}{T^3}, \\
\text{Knot}[10, 88] &\rightarrow -\frac{1 - 8T + 24T^2 - 35T^3 + 24T^4 - 8T^5 + T^6}{T^3},
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 89] &\rightarrow \frac{1 - 8T + 24T^2 - 33T^3 + 24T^4 - 8T^5 + T^6}{T^3}, \\
\text{Knot}[10, 90] &\rightarrow -\frac{2 - 8T + 17T^2 - 23T^3 + 17T^4 - 8T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 91] &\rightarrow \frac{1 - 4T + 9T^2 - 14T^3 + 17T^4 - 14T^5 + 9T^6 - 4T^7 + T^8}{T^4}, \\
\text{Knot}[10, 92] &\rightarrow -\frac{2 - 10T + 20T^2 - 25T^3 + 20T^4 - 10T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 93] &\rightarrow \frac{2 - 8T + 15T^2 - 17T^3 + 15T^4 - 8T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 94] &\rightarrow -\frac{1 - 4T + 9T^2 - 14T^3 + 15T^4 - 14T^5 + 9T^6 - 4T^7 + T^8}{T^4}, \\
\text{Knot}[10, 95] &\rightarrow \frac{(2 - 3T + 2T^2)(1 - 3T + 5T^2 - 3T^3 + T^4)}{T^3}, \\
\text{Knot}[10, 96] &\rightarrow -\frac{1 - 7T + 22T^2 - 33T^3 + 22T^4 - 7T^5 + T^6}{T^3}, \\
\text{Knot}[10, 97] &\rightarrow -\frac{5 - 22T + 33T^2 - 22T^3 + 5T^4}{T^2}, \text{Knot}[10, 98] \rightarrow -\frac{(-2 + T)(-1 + 2T)(1 - T + T^2)^2}{T^3}, \\
\text{Knot}[10, 99] &\rightarrow \frac{(1 - T + T^2)^4}{T^4}, \text{Knot}[10, 100] \rightarrow \frac{(1 - 3T + 5T^2 - 3T^3 + T^4)(1 - T + T^2 - T^3 + T^4)}{T^4}, \\
\text{Knot}[10, 101] &\rightarrow \frac{7 - 21T + 29T^2 - 21T^3 + 7T^4}{T^2}, \\
\text{Knot}[10, 102] &\rightarrow -\frac{2 - 8T + 16T^2 - 21T^3 + 16T^4 - 8T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 103] &\rightarrow \frac{(2 - 2T + T^2)(1 - T + T^2)(1 - 2T + 2T^2)}{T^3}, \\
\text{Knot}[10, 104] &\rightarrow \frac{1 - 4T + 9T^2 - 15T^3 + 19T^4 - 15T^5 + 9T^6 - 4T^7 + T^8}{T^4}, \\
\text{Knot}[10, 105] &\rightarrow \frac{1 - 8T + 22T^2 - 29T^3 + 22T^4 - 8T^5 + T^6}{T^3}, \\
\text{Knot}[10, 106] &\rightarrow -\frac{(1 - T + T^2)(-1 + T - 2T^2 + T^3)(-1 + 2T - T^2 + T^3)}{T^4}, \\
\text{Knot}[10, 107] &\rightarrow -\frac{1 - 8T + 22T^2 - 31T^3 + 22T^4 - 8T^5 + T^6}{T^3}, \\
\text{Knot}[10, 108] &\rightarrow \frac{2 - 8T + 14T^2 - 15T^3 + 14T^4 - 8T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 109] &\rightarrow \frac{1 - 4T + 10T^2 - 17T^3 + 21T^4 - 17T^5 + 10T^6 - 4T^7 + T^8}{T^4},
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 110] &\rightarrow \frac{1 - 8T + 20T^2 - 25T^3 + 20T^4 - 8T^5 + T^6}{T^3}, \\
\text{Knot}[10, 111] &\rightarrow -\frac{(2 - 3T + 2T^2)(1 - 3T + 3T^2 - 3T^3 + T^4)}{T^3}, \\
\text{Knot}[10, 112] &\rightarrow -\frac{(1 - T + T^2)(1 - 4T + 6T^2 - 7T^3 + 6T^4 - 4T^5 + T^6)}{T^4}, \\
\text{Knot}[10, 113] &\rightarrow \frac{(1 - T + T^2)(2 - 9T + 15T^2 - 9T^3 + 2T^4)}{T^3}, \\
\text{Knot}[10, 114] &\rightarrow -\frac{(1 - T + T^2)(2 - 8T + 11T^2 - 8T^3 + 2T^4)}{T^3}, \\
\text{Knot}[10, 115] &\rightarrow -\frac{1 - 9T + 26T^2 - 37T^3 + 26T^4 - 9T^5 + T^6}{T^3}, \\
\text{Knot}[10, 116] &\rightarrow -\frac{1 - 5T + 12T^2 - 19T^3 + 21T^4 - 19T^5 + 12T^6 - 5T^7 + T^8}{T^4}, \\
\text{Knot}[10, 117] &\rightarrow \frac{2 - 10T + 24T^2 - 31T^3 + 24T^4 - 10T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 118] &\rightarrow \frac{1 - 5T + 12T^2 - 19T^3 + 23T^4 - 19T^5 + 12T^6 - 5T^7 + T^8}{T^4}, \\
\text{Knot}[10, 119] &\rightarrow -\frac{2 - 10T + 23T^2 - 31T^3 + 23T^4 - 10T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 120] &\rightarrow \frac{(2 - 3T + 2T^2)(4 - 7T + 4T^2)}{T^2}, \\
\text{Knot}[10, 121] &\rightarrow \frac{2 - 11T + 27T^2 - 35T^3 + 27T^4 - 11T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 122] &\rightarrow -\frac{(1 - 3T + T^2)(1 - T + T^2)(2 - 3T + 2T^2)}{T^3}, \\
\text{Knot}[10, 123] &\rightarrow \frac{(1 - 3T + 3T^2 - 3T^3 + T^4)^2}{T^4}, \text{Knot}[10, 124] \rightarrow \frac{1 - T + T^3 - T^4 + T^5 - T^7 + T^8}{T^4}, \\
\text{Knot}[10, 125] &\rightarrow \frac{1 - 2T + 2T^2 - T^3 + 2T^4 - 2T^5 + T^6}{T^3}, \\
\text{Knot}[10, 126] &\rightarrow \frac{1 - 2T + 4T^2 - 5T^3 + 4T^4 - 2T^5 + T^6}{T^3}, \\
\text{Knot}[10, 127] &\rightarrow -\frac{1 - 4T + 6T^2 - 7T^3 + 6T^4 - 4T^5 + T^6}{T^3}, \\
\text{Knot}[10, 128] &\rightarrow \frac{2 - 3T + T^2 + T^3 + T^4 - 3T^5 + 2T^6}{T^3}, \text{Knot}[10, 129] \rightarrow \frac{(2 - 2T + T^2)(1 - 2T + 2T^2)}{T^2}, \\
\text{Knot}[10, 130] &\rightarrow \frac{2 - 4T + 5T^2 - 4T^3 + 2T^4}{T^2}, \text{Knot}[10, 131] \rightarrow -\frac{2 - 8T + 11T^2 - 8T^3 + 2T^4}{T^2},
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 132] &\rightarrow \frac{1 - T + T^2 - T^3 + T^4}{T^2}, \text{Knot}[10, 133] \rightarrow -\frac{1 - 5T + 7T^2 - 5T^3 + T^4}{T^2}, \\
\text{Knot}[10, 134] &\rightarrow \frac{2 - 4T + 4T^2 - 3T^3 + 4T^4 - 4T^5 + 2T^6}{T^3}, \\
\text{Knot}[10, 135] &\rightarrow \frac{3 - 9T + 13T^2 - 9T^3 + 3T^4}{T^2}, \text{Knot}[10, 136] \rightarrow -\frac{(1 - 3T + T^2)(1 - T + T^2)}{T^2}, \\
\text{Knot}[10, 137] &\rightarrow \frac{(1 - 3T + T^2)^2}{T^2}, \text{Knot}[10, 138] \rightarrow \frac{(1 - 3T + T^2)(1 - 2T + T^2 - 2T^3 + T^4)}{T^3}, \\
\text{Knot}[10, 139] &\rightarrow \frac{(1 - T + T^2)(1 - T^2 + T^3 - T^4 + T^6)}{T^4}, \text{Knot}[10, 140] \rightarrow \frac{(1 - T + T^2)^2}{T^2}, \\
\text{Knot}[10, 141] &\rightarrow -\frac{(1 - T + T^2)(1 - 2T + T^2 - 2T^3 + T^4)}{T^3}, \\
\text{Knot}[10, 142] &\rightarrow \frac{(1 - T + T^2)(2 - T - T^2 - T^3 + 2T^4)}{T^3}, \text{Knot}[10, 143] \rightarrow \frac{(1 - T + T^2)^3}{T^3}, \\
\text{Knot}[10, 144] &\rightarrow -\frac{(1 - T + T^2)(3 - 7T + 3T^2)}{T^2}, \text{Knot}[10, 145] \rightarrow \frac{1 + T - 3T^2 + T^3 + T^4}{T^2}, \\
\text{Knot}[10, 146] &\rightarrow \frac{2 - 8T + 13T^2 - 8T^3 + 2T^4}{T^2}, \text{Knot}[10, 147] \rightarrow -\frac{(-2 + T)(-1 + 2T)(1 - T + T^2)}{T^2}, \\
\text{Knot}[10, 148] &\rightarrow \frac{1 - 3T + 7T^2 - 9T^3 + 7T^4 - 3T^5 + T^6}{T^3}, \\
\text{Knot}[10, 149] &\rightarrow -\frac{1 - 5T + 9T^2 - 11T^3 + 9T^4 - 5T^5 + T^6}{T^3}, \\
\text{Knot}[10, 150] &\rightarrow -\frac{1 - 4T + 6T^2 - 7T^3 + 6T^4 - 4T^5 + T^6}{T^3}, \\
\text{Knot}[10, 151] &\rightarrow \frac{1 - 4T + 10T^2 - 13T^3 + 10T^4 - 4T^5 + T^6}{T^3}, \\
\text{Knot}[10, 152] &\rightarrow \frac{1 - T - T^2 + 4T^3 - 5T^4 + 4T^5 - T^6 - T^7 + T^8}{T^4}, \text{Knot}[10, 153] \rightarrow \frac{(1 - T + T^3)(1 - T^2 + T^3)}{T^3}, \\
\text{Knot}[10, 154] &\rightarrow \frac{1 - 4T^2 + 7T^3 - 4T^4 + T^6}{T^3}, \text{Knot}[10, 155] \rightarrow -\frac{(-1 + T - 2T^2 + T^3)(-1 + 2T - T^2 + T^3)}{T^3}, \\
\text{Knot}[10, 156] &\rightarrow \frac{1 - 4T + 8T^2 - 9T^3 + 8T^4 - 4T^5 + T^6}{T^3}, \\
\text{Knot}[10, 157] &\rightarrow -\frac{1 - 6T + 11T^2 - 13T^3 + 11T^4 - 6T^5 + T^6}{T^3}, \\
\text{Knot}[10, 158] &\rightarrow -\frac{1 - 4T + 10T^2 - 15T^3 + 10T^4 - 4T^5 + T^6}{T^3}, \\
\text{Knot}[10, 159] &\rightarrow \frac{(1 - T + T^2)(1 - 3T + 5T^2 - 3T^3 + T^4)}{T^3},
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 160] &\rightarrow -\frac{1 - 4T + 4T^2 - 3T^3 + 4T^4 - 4T^5 + T^6}{T^3}, \text{Knot}[10, 161] \rightarrow \frac{1 - 2T^2 + 3T^3 - 2T^4 + T^6}{T^3}, \\
\text{Knot}[10, 162] &\rightarrow -\frac{3 - 9T + 11T^2 - 9T^3 + 3T^4}{T^2}, \text{Knot}[10, 163] \rightarrow \frac{(1 - T + T^2)(1 - 4T + 7T^2 - 4T^3 + T^4)}{T^3}, \\
\text{Knot}[10, 164] &\rightarrow \frac{3 - 11T + 17T^2 - 11T^3 + 3T^4}{T^2}, \text{Knot}[10, 165] \rightarrow -\frac{2 - 10T + 15T^2 - 10T^3 + 2T^4}{T^2} \}
\end{aligned}$$

In[*]:= **ThetaTable** = Table[K → (Θ[K][[2]] /. {T₁ → T, T₂ → S}), {K, AllKnots[{3, 10}]}]

Out[*]=

$$\begin{aligned}
&\left\{ \text{Knot}[3, 1] \rightarrow -\frac{1 - S + S^2 - T - S^3 T + T^2 + S^4 T^2 - S T^3 - S^4 T^3 + S^2 T^4 - S^3 T^4 + S^4 T^4}{S^2 T^2}, \right. \\
&\text{Knot}[4, 1] \rightarrow 0, \text{Knot}[5, 1] \rightarrow \\
&\quad -\frac{1}{S^4 T^4} (2 - 2S + 2S^2 - 2S^3 + 2S^4 - 2T - 2S^5 T + 2T^2 + S^2 T^2 - S^3 T^2 + S^4 T^2 + 2S^6 T^2 - 2T^3 - S^2 T^3 - \\
&\quad S^5 T^3 - 2S^7 T^3 + 2T^4 + S^2 T^4 + S^6 T^4 + 2S^8 T^4 - 2S T^5 - S^3 T^5 - S^6 T^5 - 2S^8 T^5 + 2S^2 T^6 + S^4 T^6 - \\
&\quad S^5 T^6 + S^6 T^6 + 2S^8 T^6 - 2S^3 T^7 - 2S^8 T^7 + 2S^4 T^8 - 2S^5 T^8 + 2S^6 T^8 - 2S^7 T^8 + 2S^8 T^8), \\
&\text{Knot}[5, 2] \rightarrow -\frac{1}{S^2 T^2} (9 - 13S + 9S^2 - 13T + 6ST + 6S^2 T - 13S^3 T + 9T^2 + 6ST^2 - 12S^2 T^2 + \\
&\quad 6S^3 T^2 + 9S^4 T^2 - 13S T^3 + 6S^2 T^3 + 6S^3 T^3 - 13S^4 T^3 + 9S^2 T^4 - 13S^3 T^4 + 9S^4 T^4), \\
&\text{Knot}[6, 1] \rightarrow \frac{1}{S^2 T^2} (1 - 3S + S^2 - 3T + 6ST + 6S^2 T - 3S^3 T + T^2 + 6ST^2 - 24S^2 T^2 + \\
&\quad 6S^3 T^2 + S^4 T^2 - 3ST^3 + 6S^2 T^3 + 6S^3 T^3 - 3S^4 T^3 + S^2 T^4 - 3S^3 T^4 + S^4 T^4), \\
&\text{Knot}[6, 2] \rightarrow \frac{1}{S^4 T^4} (1 - 3S + 3S^2 - 3S^3 + S^4 - 3T + 6ST + 6S^2 T - 3S^5 T + 3T^2 - 15S^2 T^2 + \\
&\quad 11S^3 T^2 - 15S^4 T^2 + 3S^6 T^2 - 3T^3 + 11S^2 T^3 + 11S^5 T^3 - 3S^7 T^3 + T^4 + 6ST^4 - 15S^2 T^4 - \\
&\quad 15S^6 T^4 + 6S^7 T^4 + S^8 T^4 - 3ST^5 + 11S^3 T^5 + 11S^6 T^5 - 3S^8 T^5 + 3S^2 T^6 - 15S^4 T^6 + 11S^5 T^6 - \\
&\quad 15S^6 T^6 + 3S^8 T^6 - 3S^3 T^7 + 6S^4 T^7 + 6S^7 T^7 - 3S^8 T^7 + S^4 T^8 - 3S^5 T^8 + 3S^6 T^8 - 3S^7 T^8 + S^8 T^8), \\
&\text{Knot}[6, 3] \rightarrow 0, \text{Knot}[7, 1] \rightarrow -\frac{1}{S^6 T^6} (3 - 3S + 3S^2 - 3S^3 + 3S^4 - 3S^5 + 3S^6 - 3T - 3S^7 T + \\
&\quad 3T^2 + 2S^2 T^2 - 2S^3 T^2 + 2S^4 T^2 - 2S^5 T^2 + 2S^6 T^2 + 3S^8 T^2 - 3T^3 - 2S^2 T^3 - 2S^7 T^3 - 3S^9 T^3 + \\
&\quad 3T^4 + 2S^2 T^4 + S^4 T^4 - S^5 T^4 + S^6 T^4 + 2S^8 T^4 + 3S^{10} T^4 - 3T^5 - 2S^2 T^5 - S^4 T^5 - S^7 T^5 - 2S^9 T^5 - \\
&\quad 3S^{11} T^5 + 3T^6 + 2S^2 T^6 + S^4 T^6 + S^8 T^6 + 2S^{10} T^6 + 3S^{12} T^6 - 3ST^7 - 2S^3 T^7 - S^5 T^7 - S^8 T^7 - \\
&\quad 2S^{10} T^7 - 3S^{12} T^7 + 3S^2 T^8 + 2S^4 T^8 + S^6 T^8 - S^7 T^8 + S^8 T^8 + 2S^{10} T^8 + 3S^{12} T^8 - 3S^3 T^9 - 2S^5 T^9 - \\
&\quad 2S^{10} T^9 - 3S^{12} T^9 + 3S^4 T^{10} + 2S^6 T^{10} - 2S^7 T^{10} + 2S^8 T^{10} - 2S^9 T^{10} + 2S^{10} T^{10} + 3S^{12} T^{10} - \\
&\quad 3S^5 T^{11} - 3S^{12} T^{11} + 3S^6 T^{12} - 3S^7 T^{12} + 3S^8 T^{12} - 3S^9 T^{12} + 3S^{10} T^{12} - 3S^{11} T^{12} + 3S^{12} T^{12}), \\
&\text{Knot}[7, 2] \rightarrow -\frac{1}{S^2 T^2} 2 (18 - 29S + 18S^2 - 29T + 18ST + 18S^2 T - 29S^3 T + 18T^2 + 18ST^2 - 42S^2 T^2 + \\
&\quad 18S^3 T^2 + 18S^4 T^2 - 29ST^3 + 18S^2 T^3 + 18S^3 T^3 - 29S^4 T^3 + 18S^2 T^4 - 29S^3 T^4 + 18S^4 T^4), \\
&\text{Knot}[7, 3] \rightarrow \frac{1}{S^4 T^4} (17 - 25S + 25S^2 - 25S^3 + 17S^4 - 25T + 12ST + 12S^2 T - 25S^5 T + 25T^2 - \\
&\quad S^2 T^2 - 7S^3 T^2 - S^4 T^2 + 25S^6 T^2 - 25T^3 - 7S^2 T^3 + 6S^3 T^3 + 6S^4 T^3 - 7S^5 T^3 - 25S^7 T^3 + \\
&\quad 17T^4 + 12ST^4 - S^2 T^4 + 6S^3 T^4 - 12S^4 T^4 + 6S^5 T^4 - S^6 T^4 + 12S^7 T^4 + 17S^8 T^4 - 25S T^5 - \\
&\quad 7S^3 T^5 + 6S^4 T^5 + 6S^5 T^5 - 7S^6 T^5 - 25S^8 T^5 + 25S^2 T^6 - S^4 T^6 - 7S^5 T^6 - S^6 T^6 + 25S^8 T^6 - \\
&\quad 25S^3 T^7 + 12S^4 T^7 + 12S^7 T^7 - 25S^8 T^7 + 17S^4 T^8 - 25S^5 T^8 + 25S^6 T^8 - 25S^7 T^8 + 17S^8 T^8),
\end{aligned}$$

$$\text{Knot}[7, 4] \rightarrow \frac{1}{S^2 T^2} 8 \left(10 - 17 S + 10 S^2 - 17 T + 12 S T + 12 S^2 T - 17 S^3 T + 10 T^2 + 12 S T^2 - 30 S^2 T^2 + \right. \\ \left. 12 S^3 T^2 + 10 S^4 T^2 - 17 S T^3 + 12 S^2 T^3 + 12 S^3 T^3 - 17 S^4 T^3 + 10 S^2 T^4 - 17 S^3 T^4 + 10 S^4 T^4 \right),$$

$$\text{Knot}[7, 5] \rightarrow -\frac{1}{S^4 T^4} \left(17 - 33 S + 41 S^2 - 33 S^3 + 17 S^4 - 33 T + 32 S T - 16 S^2 T - 16 S^3 T + 32 S^4 T - \right. \\ \left. 33 S^5 T + 41 T^2 - 16 S T^2 + 4 S^2 T^2 + 12 S^3 T^2 + 4 S^4 T^2 - 16 S^5 T^2 + 41 S^6 T^2 - 33 T^3 - 16 S T^3 + 12 S^2 T^3 - \right. \\ \left. 14 S^3 T^3 - 14 S^4 T^3 + 12 S^5 T^3 - 16 S^6 T^3 - 33 S^7 T^3 + 17 T^4 + 32 S T^4 + 4 S^2 T^4 - 14 S^3 T^4 + 36 S^4 T^4 - \right. \\ \left. 14 S^5 T^4 + 4 S^6 T^4 + 32 S^7 T^4 + 17 S^8 T^4 - 33 S T^5 - 16 S^2 T^5 + 12 S^3 T^5 - 14 S^4 T^5 - 14 S^5 T^5 + 12 S^6 T^5 - \right. \\ \left. 16 S^7 T^5 - 33 S^8 T^5 + 41 S^2 T^6 - 16 S^3 T^6 + 4 S^4 T^6 + 12 S^5 T^6 + 4 S^6 T^6 - 16 S^7 T^6 + 41 S^8 T^6 - 33 S^3 T^7 + \right. \\ \left. 32 S^4 T^7 - 16 S^5 T^7 - 16 S^6 T^7 + 32 S^7 T^7 - 33 S^8 T^7 + 17 S^4 T^8 - 33 S^5 T^8 + 41 S^6 T^8 - 33 S^7 T^8 + 17 S^8 T^8 \right),$$

$$\text{Knot}[7, 6] \rightarrow \frac{1}{S^4 T^4} \left(1 - 5 S + 7 S^2 - 5 S^3 + S^4 - 5 T + 20 S T - 10 S^2 T - 10 S^3 T + 20 S^4 T - 5 S^5 T + \right. \\ \left. 7 T^2 - 10 S T^2 - 64 S^2 T^2 + 98 S^3 T^2 - 64 S^4 T^2 - 10 S^5 T^2 + 7 S^6 T^2 - 5 T^3 - 10 S T^3 + 98 S^2 T^3 - \right. \\ \left. 50 S^3 T^3 - 50 S^4 T^3 + 98 S^5 T^3 - 10 S^6 T^3 - 5 S^7 T^3 + T^4 + 20 S T^4 - 64 S^2 T^4 - 50 S^3 T^4 + 108 S^4 T^4 - \right. \\ \left. 50 S^5 T^4 - 64 S^6 T^4 + 20 S^7 T^4 + S^8 T^4 - 5 S T^5 - 10 S^2 T^5 + 98 S^3 T^5 - 50 S^4 T^5 - 50 S^5 T^5 + 98 S^6 T^5 - \right. \\ \left. 10 S^7 T^5 - 5 S^8 T^5 + 7 S^2 T^6 - 10 S^3 T^6 - 64 S^4 T^6 + 98 S^5 T^6 - 64 S^6 T^6 - 10 S^7 T^6 + 7 S^8 T^6 - 5 S^3 T^7 + \right. \\ \left. 20 S^4 T^7 - 10 S^5 T^7 - 10 S^6 T^7 + 20 S^7 T^7 - 5 S^8 T^7 + S^4 T^8 - 5 S^5 T^8 + 7 S^6 T^8 - 5 S^7 T^8 + S^8 T^8 \right),$$

$$\text{Knot}[7, 7] \rightarrow -\frac{1}{S^2 T^2} \left(1 - 5 S + S^2 - 5 T + 12 S T + 12 S^2 T - 5 S^3 T + T^2 + 12 S T^2 - 48 S^2 T^2 + \right. \\ \left. 12 S^3 T^2 + S^4 T^2 - 5 S T^3 + 12 S^2 T^3 + 12 S^3 T^3 - 5 S^4 T^3 + S^2 T^4 - 5 S^3 T^4 + S^4 T^4 \right),$$

$$\text{Knot}[8, 1] \rightarrow \frac{1}{S^2 T^2} \left(9 - 23 S + 9 S^2 - 23 T + 36 S T + 36 S^2 T - 23 S^3 T + 9 T^2 + 36 S T^2 - 132 S^2 T^2 + \right. \\ \left. 36 S^3 T^2 + 9 S^4 T^2 - 23 S T^3 + 36 S^2 T^3 + 36 S^3 T^3 - 23 S^4 T^3 + 9 S^2 T^4 - 23 S^3 T^4 + 9 S^4 T^4 \right),$$

$$\text{Knot}[8, 2] \rightarrow \frac{1}{S^6 T^6} \left(2 - 6 S + 6 S^2 - 6 S^3 + 6 S^4 - 6 S^5 + 2 S^6 - 6 T + 12 S T + 12 S^2 T - 6 S^3 T + 6 T^2 - \right. \\ \left. 30 S^2 T^2 + 20 S^3 T^2 - 20 S^4 T^2 + 20 S^5 T^2 - 30 S^6 T^2 + 6 S^8 T^2 - 6 T^3 + 20 S^2 T^3 + 6 S^3 T^3 + 6 S^6 T^3 + \right. \\ \left. 20 S^7 T^3 - 6 S^9 T^3 + 6 T^4 - 20 S^2 T^4 - 15 S^4 T^4 + 11 S^5 T^4 - 15 S^6 T^4 - 20 S^8 T^4 + 6 S^{10} T^4 - 6 T^5 + \right. \\ \left. 20 S^2 T^5 + 11 S^4 T^5 + 11 S^7 T^5 + 20 S^9 T^5 - 6 S^{11} T^5 + 2 T^6 + 12 S T^6 - 30 S^2 T^6 + 6 S^3 T^6 - 15 S^4 T^6 - \right. \\ \left. 15 S^8 T^6 + 6 S^9 T^6 - 30 S^{10} T^6 + 12 S^{11} T^6 + 2 S^{12} T^6 - 6 S T^7 + 20 S^3 T^7 + 11 S^5 T^7 + 11 S^8 T^7 + \right. \\ \left. 20 S^{10} T^7 - 6 S^{12} T^7 + 6 S^2 T^8 - 20 S^4 T^8 - 15 S^6 T^8 + 11 S^7 T^8 - 15 S^8 T^8 - 20 S^{10} T^8 + 6 S^{12} T^8 - \right. \\ \left. 6 S^3 T^9 + 20 S^5 T^9 + 6 S^6 T^9 + 6 S^9 T^9 + 20 S^{10} T^9 - 6 S^{12} T^9 + 6 S^4 T^{10} - 30 S^6 T^{10} + 20 S^7 T^{10} - \right. \\ \left. 20 S^8 T^{10} + 20 S^9 T^{10} - 30 S^{10} T^{10} + 6 S^{12} T^{10} - 6 S^5 T^{11} + 12 S^6 T^{11} + 12 S^{11} T^{11} - 6 S^{12} T^{11} + \right. \\ \left. 2 S^6 T^{12} - 6 S^7 T^{12} + 6 S^8 T^{12} - 6 S^9 T^{12} + 6 S^{10} T^{12} - 6 S^{11} T^{12} + 2 S^{12} T^{12} \right), \text{Knot}[8, 3] \rightarrow 0,$$

$$\text{Knot}[8, 4] \rightarrow \frac{1}{S^4 T^4} \left(7 - 17 S + 17 S^2 - 17 S^3 + 7 S^4 - 17 T + 24 S T + 24 S^2 T - 17 S^3 T + 17 T^2 - \right. \\ \left. 47 S^2 T^2 + 35 S^3 T^2 - 47 S^4 T^2 + 17 S^6 T^2 - 17 T^3 + 35 S^2 T^3 - 6 S^3 T^3 - 6 S^4 T^3 + 35 S^5 T^3 - 17 S^7 T^3 + \right. \\ \left. 7 T^4 + 24 S T^4 - 47 S^2 T^4 - 6 S^3 T^4 + 24 S^4 T^4 - 6 S^5 T^4 - 47 S^6 T^4 + 24 S^7 T^4 + 7 S^8 T^4 - 17 S T^5 + \right. \\ \left. 35 S^3 T^5 - 6 S^4 T^5 - 6 S^5 T^5 + 35 S^6 T^5 - 17 S^8 T^5 + 17 S^2 T^6 - 47 S^4 T^6 + 35 S^5 T^6 - 47 S^6 T^6 + 17 S^8 T^6 - \right. \\ \left. 17 S^3 T^7 + 24 S^4 T^7 + 24 S^7 T^7 - 17 S^8 T^7 + 7 S^4 T^8 - 17 S^5 T^8 + 17 S^6 T^8 - 17 S^7 T^8 + 7 S^8 T^8 \right),$$

$$\text{Knot}[8, 5] \rightarrow -\frac{1}{S^6 T^6} \left(2 - 6 S + 8 S^2 - 10 S^3 + 8 S^4 - 6 S^5 + 2 S^6 - 6 T + 12 S T - 6 S^2 T + 6 S^3 T + \right. \\ \left. 6 S^4 T - 6 S^5 T + 12 S^6 T - 6 S^7 T + 8 T^2 - 6 S T^2 - 15 S^2 T^2 + 12 S^3 T^2 - 29 S^4 T^2 + 12 S^5 T^2 - 15 S^6 T^2 - \right. \\ \left. 6 S^7 T^2 + 8 S^8 T^2 - 10 T^3 + 6 S T^3 + 12 S^2 T^3 + 6 S^3 T^3 + 13 S^4 T^3 + 13 S^5 T^3 + 6 S^6 T^3 + 12 S^7 T^3 + \right. \\ \left. 6 S^8 T^3 - 10 S^9 T^3 + 8 T^4 + 6 S T^4 - 29 S^2 T^4 + 13 S^3 T^4 - 43 S^4 T^4 + 15 S^5 T^4 - 43 S^6 T^4 + 13 S^7 T^4 - \right. \\ \left. 29 S^8 T^4 + 6 S^9 T^4 + 8 S^{10} T^4 - 6 T^5 - 6 S T^5 + 12 S^2 T^5 + 13 S^3 T^5 + 15 S^4 T^5 + 16 S^5 T^5 + 16 S^6 T^5 + \right.$$

$$\begin{aligned}
& 15 S^7 T^5 + 13 S^8 T^5 + 12 S^9 T^5 - 6 S^{10} T^5 - 6 S^{11} T^5 + 2 T^6 + 12 S T^6 - 15 S^2 T^6 + 6 S^3 T^6 - 43 S^4 T^6 + \\
& 16 S^5 T^6 - 48 S^6 T^6 + 16 S^7 T^6 - 43 S^8 T^6 + 6 S^9 T^6 - 15 S^{10} T^6 + 12 S^{11} T^6 + 2 S^{12} T^6 - 6 S T^7 - \\
& 6 S^2 T^7 + 12 S^3 T^7 + 13 S^4 T^7 + 15 S^5 T^7 + 16 S^6 T^7 + 16 S^7 T^7 + 15 S^8 T^7 + 13 S^9 T^7 + 12 S^{10} T^7 - \\
& 6 S^{11} T^7 - 6 S^{12} T^7 + 8 S^2 T^8 + 6 S^3 T^8 - 29 S^4 T^8 + 13 S^5 T^8 - 43 S^6 T^8 + 15 S^7 T^8 - 43 S^8 T^8 + 13 S^9 T^8 - \\
& 29 S^{10} T^8 + 6 S^{11} T^8 + 8 S^{12} T^8 - 10 S^3 T^9 + 6 S^4 T^9 + 12 S^5 T^9 + 6 S^6 T^9 + 13 S^7 T^9 + 13 S^8 T^9 + 6 S^9 T^9 + \\
& 12 S^{10} T^9 + 6 S^{11} T^9 - 10 S^{12} T^9 + 8 S^4 T^{10} - 6 S^5 T^{10} - 15 S^6 T^{10} + 12 S^7 T^{10} - 29 S^8 T^{10} + 12 S^9 T^{10} - \\
& 15 S^{10} T^{10} - 6 S^{11} T^{10} + 8 S^{12} T^{10} - 6 S^5 T^{11} + 12 S^6 T^{11} - 6 S^7 T^{11} + 6 S^8 T^{11} + 6 S^9 T^{11} - 6 S^{10} T^{11} + \\
& 12 S^{11} T^{11} - 6 S^{12} T^{11} + 2 S^6 T^{12} - 6 S^7 T^{12} + 8 S^8 T^{12} - 10 S^9 T^{12} + 8 S^{10} T^{12} - 6 S^{11} T^{12} + 2 S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[8, 6] \rightarrow \frac{1}{S^4 T^4} \left(9 - 27 S + 31 S^2 - 27 S^3 + 9 S^4 - 27 T + 54 S T - 12 S^2 T - 12 S^3 T + 54 S^4 T - \right.$$

$$\begin{aligned}
& 27 S^5 T + 31 T^2 - 12 S T^2 - 111 S^2 T^2 + 111 S^3 T^2 - 111 S^4 T^2 - 12 S^5 T^2 + 31 S^6 T^2 - 27 T^3 - \\
& 12 S T^3 + 111 S^2 T^3 - 18 S^3 T^3 - 18 S^4 T^3 + 111 S^5 T^3 - 12 S^6 T^3 - 27 S^7 T^3 + 9 T^4 + 54 S T^4 - \\
& 111 S^2 T^4 - 18 S^3 T^4 + 12 S^4 T^4 - 18 S^5 T^4 - 111 S^6 T^4 + 54 S^7 T^4 + 9 S^8 T^4 - 27 S T^5 - \\
& 12 S^2 T^5 + 111 S^3 T^5 - 18 S^4 T^5 - 18 S^5 T^5 + 111 S^6 T^5 - 12 S^7 T^5 - 27 S^8 T^5 + 31 S^2 T^6 - \\
& 12 S^3 T^6 - 111 S^4 T^6 + 111 S^5 T^6 - 111 S^6 T^6 - 12 S^7 T^6 + 31 S^8 T^6 - 27 S^3 T^7 + 54 S^4 T^7 - \\
& 12 S^5 T^7 - 12 S^6 T^7 + 54 S^7 T^7 - 27 S^8 T^7 + 9 S^4 T^8 - 27 S^5 T^8 + 31 S^6 T^8 - 27 S^7 T^8 + 9 S^8 T^8 \Big),
\end{aligned}$$

$$\text{Knot}[8, 7] \rightarrow \frac{1}{S^6 T^6} \left(1 - 3 S + 5 S^2 - 5 S^3 + 5 S^4 - 3 S^5 + S^6 - 3 T + 6 S T - 6 S^2 T - 6 S^5 T + 6 S^6 T - \right.$$

$$\begin{aligned}
& 3 S^7 T + 5 T^2 - 6 S T^2 + 3 S^2 T^2 + 7 S^3 T^2 + S^4 T^2 + 7 S^5 T^2 + 3 S^6 T^2 - 6 S^7 T^2 + 5 S^8 T^2 - 5 T^3 + 7 S^2 T^3 - \\
& 16 S^3 T^3 - 4 S^4 T^3 - 4 S^5 T^3 - 16 S^6 T^3 + 7 S^7 T^3 - 5 S^9 T^3 + 5 T^4 + S^2 T^4 - 4 S^3 T^4 + 31 S^4 T^4 - 19 S^5 T^4 + \\
& 31 S^6 T^4 - 4 S^7 T^4 + S^8 T^4 + 5 S^{10} T^4 - 3 T^5 - 6 S T^5 + 7 S^2 T^5 - 4 S^3 T^5 - 19 S^4 T^5 - 19 S^7 T^5 - 4 S^8 T^5 + \\
& 7 S^9 T^5 - 6 S^{10} T^5 - 3 S^{11} T^5 + T^6 + 6 S T^6 + 3 S^2 T^6 - 16 S^3 T^6 + 31 S^4 T^6 + 31 S^8 T^6 - 16 S^9 T^6 + 3 S^{10} T^6 + \\
& 6 S^{11} T^6 + S^{12} T^6 - 3 S T^7 - 6 S^2 T^7 + 7 S^3 T^7 - 4 S^4 T^7 - 19 S^5 T^7 - 19 S^8 T^7 - 4 S^9 T^7 + 7 S^{10} T^7 - 6 S^{11} T^7 - \\
& 3 S^{12} T^7 + 5 S^2 T^8 + S^4 T^8 - 4 S^5 T^8 + 31 S^6 T^8 - 19 S^7 T^8 + 31 S^8 T^8 - 4 S^9 T^8 + S^{10} T^8 + 5 S^{12} T^8 - \\
& 5 S^3 T^9 + 7 S^5 T^9 - 16 S^6 T^9 - 4 S^7 T^9 - 4 S^8 T^9 - 16 S^9 T^9 + 7 S^{10} T^9 - 5 S^{12} T^9 + 5 S^4 T^{10} - 6 S^5 T^{10} + \\
& 3 S^6 T^{10} + 7 S^7 T^{10} + S^8 T^{10} + 7 S^9 T^{10} + 3 S^{10} T^{10} - 6 S^{11} T^{10} + 5 S^{12} T^{10} - 3 S^5 T^{11} + 6 S^6 T^{11} - 6 S^7 T^{11} - \\
& 6 S^{10} T^{11} + 6 S^{11} T^{11} - 3 S^{12} T^{11} + S^6 T^{12} - 3 S^7 T^{12} + 5 S^8 T^{12} - 5 S^9 T^{12} + 5 S^{10} T^{12} - 3 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[8, 8] \rightarrow \frac{1}{S^4 T^4} \left(1 - 3 S + 5 S^2 - 3 S^3 + S^4 - 3 T + 6 S T - 6 S^2 T - 6 S^3 T + 6 S^4 T - 3 S^5 T + \right.$$

$$\begin{aligned}
& 5 T^2 - 6 S T^2 + 9 S^2 T^2 + 5 S^3 T^2 + 9 S^4 T^2 - 6 S^5 T^2 + 5 S^6 T^2 - 3 T^3 - 6 S T^3 + 5 S^2 T^3 - 18 S^3 T^3 - \\
& 18 S^4 T^3 + 5 S^5 T^3 - 6 S^6 T^3 - 3 S^7 T^3 + T^4 + 6 S T^4 + 9 S^2 T^4 - 18 S^3 T^4 + 60 S^4 T^4 - 18 S^5 T^4 + \\
& 9 S^6 T^4 + 6 S^7 T^4 + S^8 T^4 - 3 S T^5 - 6 S^2 T^5 + 5 S^3 T^5 - 18 S^4 T^5 - 18 S^5 T^5 + 5 S^6 T^5 - 6 S^7 T^5 - \\
& 3 S^8 T^5 + 5 S^2 T^6 - 6 S^3 T^6 + 9 S^4 T^6 + 5 S^5 T^6 + 9 S^6 T^6 - 6 S^7 T^6 + 5 S^8 T^6 - 3 S^3 T^7 + 6 S^4 T^7 - \\
& 6 S^5 T^7 - 6 S^6 T^7 + 6 S^7 T^7 - 3 S^8 T^7 + S^4 T^8 - 3 S^5 T^8 + 5 S^6 T^8 - 3 S^7 T^8 + S^8 T^8 \Big), \text{Knot}[8, 9] \rightarrow 0,
\end{aligned}$$

$$\text{Knot}[8, 10] \rightarrow \frac{1}{S^6 T^6} \left(1 - 3 S + 6 S^2 - 7 S^3 + 6 S^4 - 3 S^5 + S^6 - 3 T + 6 S T - 9 S^2 T + 3 S^3 T + 3 S^4 T - \right.$$

$$\begin{aligned}
& 9 S^5 T + 6 S^6 T - 3 S^7 T + 6 T^2 - 9 S T^2 + 14 S^2 T^2 - 2 S^3 T^2 + 2 S^4 T^2 - 2 S^5 T^2 + 14 S^6 T^2 - 9 S^7 T^2 + \\
& 6 S^8 T^2 - 7 T^3 + 3 S T^3 - 2 S^2 T^3 - 20 S^3 T^3 + 5 S^4 T^3 + 5 S^5 T^3 - 20 S^6 T^3 - 2 S^7 T^3 + 3 S^8 T^3 - 7 S^9 T^3 + \\
& 6 T^4 + 3 S T^4 + 2 S^2 T^4 + 5 S^3 T^4 + 40 S^4 T^4 - 48 S^5 T^4 + 40 S^6 T^4 + 5 S^7 T^4 + 2 S^8 T^4 + 3 S^9 T^4 + 6 S^{10} T^4 - \\
& 3 T^5 - 9 S T^5 - 2 S^2 T^5 + 5 S^3 T^5 - 48 S^4 T^5 + 18 S^5 T^5 + 18 S^6 T^5 - 48 S^7 T^5 + 5 S^8 T^5 - 2 S^9 T^5 - 9 S^{10} T^5 - \\
& 3 S^{11} T^5 + T^6 + 6 S T^6 + 14 S^2 T^6 - 20 S^3 T^6 + 40 S^4 T^6 + 18 S^5 T^6 - 36 S^6 T^6 + 18 S^7 T^6 + 40 S^8 T^6 - 20 S^9 T^6 + \\
& 14 S^{10} T^6 + 6 S^{11} T^6 + S^{12} T^6 - 3 S T^7 - 9 S^2 T^7 - 2 S^3 T^7 + 5 S^4 T^7 - 48 S^5 T^7 + 18 S^6 T^7 + 18 S^7 T^7 - \\
& 48 S^8 T^7 + 5 S^9 T^7 - 2 S^{10} T^7 - 9 S^{11} T^7 - 3 S^{12} T^7 + 6 S^2 T^8 + 3 S^3 T^8 + 2 S^4 T^8 + 5 S^5 T^8 + 40 S^6 T^8 - \\
& 48 S^7 T^8 + 40 S^8 T^8 + 5 S^9 T^8 + 2 S^{10} T^8 + 3 S^{11} T^8 + 6 S^{12} T^8 - 7 S^3 T^9 + 3 S^4 T^9 - 2 S^5 T^9 - 20 S^6 T^9 + \\
& 5 S^7 T^9 + 5 S^8 T^9 - 20 S^9 T^9 - 2 S^{10} T^9 + 3 S^{11} T^9 - 7 S^{12} T^9 + 6 S^4 T^{10} - 9 S^5 T^{10} + 14 S^6 T^{10} - 2 S^7 T^{10} + \\
& 2 S^8 T^{10} - 2 S^9 T^{10} + 14 S^{10} T^{10} - 9 S^{11} T^{10} + 6 S^{12} T^{10} - 3 S^5 T^{11} + 6 S^6 T^{11} - 9 S^7 T^{11} + 3 S^8 T^{11} + 3 S^9 T^{11} -
\end{aligned}$$

$$\begin{aligned}
& 9 S^{10} T^{11} + 6 S^{11} T^{11} - 3 S^{12} T^{11} + S^6 T^{12} - 3 S^7 T^{12} + 6 S^8 T^{12} - 7 S^9 T^{12} + 6 S^{10} T^{12} - 3 S^{11} T^{12} + S^{12} T^{12} \Big), \\
\text{Knot}[8, 11] & \rightarrow \frac{1}{S^4 T^4} \Big(9 - 31 S + 39 S^2 - 31 S^3 + 9 S^4 - 31 T + 76 S T - 28 S^2 T - 28 S^3 T + 76 S^4 T - \\
& 31 S^5 T + 39 T^2 - 28 S T^2 - 160 S^2 T^2 + 206 S^3 T^2 - 160 S^4 T^2 - 28 S^5 T^2 + 39 S^6 T^2 - 31 T^3 - \\
& 28 S T^3 + 206 S^2 T^3 - 74 S^3 T^3 - 74 S^4 T^3 + 206 S^5 T^3 - 28 S^6 T^3 - 31 S^7 T^3 + 9 T^4 + 76 S T^4 - \\
& 160 S^2 T^4 - 74 S^3 T^4 + 132 S^4 T^4 - 74 S^5 T^4 - 160 S^6 T^4 + 76 S^7 T^4 + 9 S^8 T^4 - 31 S T^5 - 28 S^2 T^5 + \\
& 206 S^3 T^5 - 74 S^4 T^5 - 74 S^5 T^5 + 206 S^6 T^5 - 28 S^7 T^5 - 31 S^8 T^5 + 39 S^2 T^6 - 28 S^3 T^6 - 160 S^4 T^6 + \\
& 206 S^5 T^6 - 160 S^6 T^6 - 28 S^7 T^6 + 39 S^8 T^6 - 31 S^3 T^7 + 76 S^4 T^7 - 28 S^5 T^7 - 28 S^6 T^7 + \\
& 76 S^7 T^7 - 31 S^8 T^7 + 9 S^4 T^8 - 31 S^5 T^8 + 39 S^6 T^8 - 31 S^7 T^8 + 9 S^8 T^8 \Big), \text{Knot}[8, 12] \rightarrow 0, \\
\text{Knot}[8, 13] & \rightarrow \frac{1}{S^4 T^4} \Big(1 - 3 S + 5 S^2 - 3 S^3 + S^4 - 3 T + 6 S T - 6 S^2 T - 6 S^3 T + 6 S^4 T - 3 S^5 T + \\
& 5 T^2 - 6 S T^2 + 9 S^2 T^2 + 7 S^3 T^2 + 9 S^4 T^2 - 6 S^5 T^2 + 5 S^6 T^2 - 3 T^3 - 6 S T^3 + 7 S^2 T^3 - \\
& 24 S^3 T^3 - 24 S^4 T^3 + 7 S^5 T^3 - 6 S^6 T^3 - 3 S^7 T^3 + T^4 + 6 S T^4 + 9 S^2 T^4 - 24 S^3 T^4 + 84 S^4 T^4 - \\
& 24 S^5 T^4 + 9 S^6 T^4 + 6 S^7 T^4 + S^8 T^4 - 3 S T^5 - 6 S^2 T^5 + 7 S^3 T^5 - 24 S^4 T^5 - 24 S^5 T^5 + 7 S^6 T^5 - \\
& 6 S^7 T^5 - 3 S^8 T^5 + 5 S^2 T^6 - 6 S^3 T^6 + 9 S^4 T^6 + 7 S^5 T^6 + 9 S^6 T^6 - 6 S^7 T^6 + 5 S^8 T^6 - 3 S^3 T^7 + \\
& 6 S^4 T^7 - 6 S^5 T^7 - 6 S^6 T^7 + 6 S^7 T^7 - 3 S^8 T^7 + S^4 T^8 - 3 S^5 T^8 + 5 S^6 T^8 - 3 S^7 T^8 + S^8 T^8 \Big), \\
\text{Knot}[8, 14] & \rightarrow \frac{1}{S^4 T^4} \Big(9 - 35 S + 47 S^2 - 35 S^3 + 9 S^4 - 35 T + 102 S T - 48 S^2 T - 48 S^3 T + \\
& 102 S^4 T - 35 S^5 T + 47 T^2 - 48 S T^2 - 236 S^2 T^2 + 356 S^3 T^2 - 236 S^4 T^2 - 48 S^5 T^2 + 47 S^6 T^2 - \\
& 35 T^3 - 48 S T^3 + 356 S^2 T^3 - 168 S^3 T^3 - 168 S^4 T^3 + 356 S^5 T^3 - 48 S^6 T^3 - 35 S^7 T^3 + 9 T^4 + \\
& 102 S T^4 - 236 S^2 T^4 - 168 S^3 T^4 + 336 S^4 T^4 - 168 S^5 T^4 - 236 S^6 T^4 + 102 S^7 T^4 + 9 S^8 T^4 - \\
& 35 S T^5 - 48 S^2 T^5 + 356 S^3 T^5 - 168 S^4 T^5 - 168 S^5 T^5 + 356 S^6 T^5 - 48 S^7 T^5 - 35 S^8 T^5 + 47 S^2 T^6 - \\
& 48 S^3 T^6 - 236 S^4 T^6 + 356 S^5 T^6 - 236 S^6 T^6 - 48 S^7 T^6 + 47 S^8 T^6 - 35 S^3 T^7 + 102 S^4 T^7 - \\
& 48 S^5 T^7 - 48 S^6 T^7 + 102 S^7 T^7 - 35 S^8 T^7 + 9 S^4 T^8 - 35 S^5 T^8 + 47 S^6 T^8 - 35 S^7 T^8 + 9 S^8 T^8 \Big), \\
\text{Knot}[8, 15] & \rightarrow -\frac{1}{S^4 T^4} \Big(57 - 148 S + 203 S^2 - 148 S^3 + 57 S^4 - 148 T + 240 S T - 145 S^2 T - 145 S^3 T + \\
& 240 S^4 T - 148 S^5 T + 203 T^2 - 145 S T^2 - 111 S^2 T^2 + 375 S^3 T^2 - 111 S^4 T^2 - 145 S^5 T^2 + 203 S^6 T^2 - \\
& 148 T^3 - 145 S T^3 + 375 S^2 T^3 - 304 S^3 T^3 - 304 S^4 T^3 + 375 S^5 T^3 - 145 S^6 T^3 - 148 S^7 T^3 + 57 T^4 + \\
& 240 S T^4 - 111 S^2 T^4 - 304 S^3 T^4 + 756 S^4 T^4 - 304 S^5 T^4 - 111 S^6 T^4 + 240 S^7 T^4 + 57 S^8 T^4 - 148 S T^5 - \\
& 145 S^2 T^5 + 375 S^3 T^5 - 304 S^4 T^5 - 304 S^5 T^5 + 375 S^6 T^5 - 145 S^7 T^5 - 148 S^8 T^5 + 203 S^2 T^6 - \\
& 145 S^3 T^6 - 111 S^4 T^6 + 375 S^5 T^6 - 111 S^6 T^6 - 145 S^7 T^6 + 203 S^8 T^6 - 148 S^3 T^7 + 240 S^4 T^7 - \\
& 145 S^5 T^7 - 145 S^6 T^7 + 240 S^7 T^7 - 148 S^8 T^7 + 57 S^4 T^8 - 148 S^5 T^8 + 203 S^6 T^8 - 148 S^7 T^8 + 57 S^8 T^8 \Big), \\
\text{Knot}[8, 16] & \rightarrow -\frac{1}{S^6 T^6} \Big(1 - 4 S + 8 S^2 - 9 S^3 + 8 S^4 - 4 S^5 + S^6 - 4 T + 12 S T - 16 S^2 T + 4 S^3 T + \\
& 4 S^4 T - 16 S^5 T + 12 S^6 T - 4 S^7 T + 8 T^2 - 16 S T^2 + 6 S^2 T^2 + 30 S^3 T^2 - 26 S^4 T^2 + 30 S^5 T^2 + \\
& 6 S^6 T^2 - 16 S^7 T^2 + 8 S^8 T^2 - 9 T^3 + 4 S T^3 + 30 S^2 T^3 - 66 S^3 T^3 + 7 S^4 T^3 + 7 S^5 T^3 - 66 S^6 T^3 + \\
& 30 S^7 T^3 + 4 S^8 T^3 - 9 S^9 T^3 + 8 T^4 + 4 S T^4 - 26 S^2 T^4 + 7 S^3 T^4 + 106 S^4 T^4 - 90 S^5 T^4 + 106 S^6 T^4 + \\
& 7 S^7 T^4 - 26 S^8 T^4 + 4 S^9 T^4 + 8 S^{10} T^4 - 4 T^5 - 16 S T^5 + 30 S^2 T^5 + 7 S^3 T^5 - 90 S^4 T^5 + 6 S^5 T^5 + \\
& 6 S^6 T^5 - 90 S^7 T^5 + 7 S^8 T^5 + 30 S^9 T^5 - 16 S^{10} T^5 - 4 S^{11} T^5 + T^6 + 12 S T^6 + 6 S^2 T^6 - 66 S^3 T^6 + \\
& 106 S^4 T^6 + 6 S^5 T^6 + 12 S^6 T^6 + 6 S^7 T^6 + 106 S^8 T^6 - 66 S^9 T^6 + 6 S^{10} T^6 + 12 S^{11} T^6 + S^{12} T^6 - \\
& 4 S T^7 - 16 S^2 T^7 + 30 S^3 T^7 + 7 S^4 T^7 - 90 S^5 T^7 + 6 S^6 T^7 + 6 S^7 T^7 - 90 S^8 T^7 + 7 S^9 T^7 + 30 S^{10} T^7 - \\
& 16 S^{11} T^7 - 4 S^{12} T^7 + 8 S^2 T^8 + 4 S^3 T^8 - 26 S^4 T^8 + 7 S^5 T^8 + 106 S^6 T^8 - 90 S^7 T^8 + 106 S^8 T^8 + 7 S^9 T^8 - \\
& 26 S^{10} T^8 + 4 S^{11} T^8 + 8 S^{12} T^8 - 9 S^3 T^9 + 4 S^4 T^9 + 30 S^5 T^9 - 66 S^6 T^9 + 7 S^7 T^9 + 7 S^8 T^9 - 66 S^9 T^9 + \\
& 30 S^{10} T^9 + 4 S^{11} T^9 - 9 S^{12} T^9 + 8 S^4 T^{10} - 16 S^5 T^{10} + 6 S^6 T^{10} + 30 S^7 T^{10} - 26 S^8 T^{10} + 30 S^9 T^{10} + \\
& 6 S^{10} T^{10} - 16 S^{11} T^{10} + 8 S^{12} T^{10} - 4 S^5 T^{11} + 12 S^6 T^{11} - 16 S^7 T^{11} + 4 S^8 T^{11} + 4 S^9 T^{11} - 16 S^{10} T^{11} +
\end{aligned}$$

$$12 S^{11} T^{11} - 4 S^{12} T^{11} + S^6 T^{12} - 4 S^7 T^{12} + 8 S^8 T^{12} - 9 S^9 T^{12} + 8 S^{10} T^{12} - 4 S^{11} T^{12} + S^{12} T^{12}),$$

$$\text{Knot}[8, 17] \rightarrow 0, \text{Knot}[8, 18] \rightarrow 0, \text{Knot}[8, 19] \rightarrow$$

$$\frac{1}{S^6 T^6} (3 - 3 S + 3 S^3 - 3 S^5 + 3 S^6 - 3 T + 3 S^2 T - 3 S^3 T - 3 S^4 T + 3 S^5 T - 3 S^7 T + 3 S T^2 - 3 S^2 T^2 + 3 S^4 T^2 - 3 S^6 T^2 + 3 S^7 T^2 + 3 T^3 - 3 S T^3 + 4 S^3 T^3 - 2 S^4 T^3 - 2 S^5 T^3 + 4 S^6 T^3 - 3 S^8 T^3 + 3 S^9 T^3 - 3 S T^4 + 3 S^2 T^4 - 2 S^3 T^4 - S^4 T^4 + S^5 T^4 - S^6 T^4 - 2 S^7 T^4 + 3 S^8 T^4 - 3 S^9 T^4 - 3 T^5 + 3 S T^5 - 2 S^3 T^5 + S^4 T^5 + S^7 T^5 - 2 S^8 T^5 + 3 S^{10} T^5 - 3 S^{11} T^5 + 3 T^6 - 3 S^2 T^6 + 4 S^3 T^6 - S^4 T^6 - S^8 T^6 + 4 S^9 T^6 - 3 S^{10} T^6 + 3 S^{12} T^6 - 3 S T^7 + 3 S^2 T^7 - 2 S^4 T^7 + S^5 T^7 + S^8 T^7 - 2 S^9 T^7 + 3 S^{11} T^7 - 3 S^{12} T^7 - 3 S^3 T^8 + 3 S^4 T^8 - 2 S^5 T^8 - S^6 T^8 + S^7 T^8 - S^8 T^8 - 2 S^9 T^8 + 3 S^{10} T^8 - 3 S^{11} T^8 + 3 S^3 T^9 - 3 S^4 T^9 + 4 S^6 T^9 - 2 S^7 T^9 - 2 S^8 T^9 + 4 S^9 T^9 - 3 S^{11} T^9 + 3 S^{12} T^9 + 3 S^5 T^{10} - 3 S^6 T^{10} + 3 S^8 T^{10} - 3 S^{10} T^{10} + 3 S^{11} T^{10} - 3 S^5 T^{11} + 3 S^7 T^{11} - 3 S^8 T^{11} - 3 S^9 T^{11} + 3 S^{10} T^{11} - 3 S^{12} T^{11} + 3 S^6 T^{12} - 3 S^7 T^{12} + 3 S^9 T^{12} - 3 S^{11} T^{12} + 3 S^{12} T^{12}),$$

$$\text{Knot}[8, 20] \rightarrow -\frac{1}{S^2 T^2} 2 (3 - 4 S + 3 S^2 - 4 T + S T + S^2 T - 4 S^3 T + 3 T^2 + S T^2 + S^3 T^2 + 3 S^4 T^2 - 4 S T^3 + S^2 T^3 + S^3 T^3 - 4 S^4 T^3 + 3 S^2 T^4 - 4 S^3 T^4 + 3 S^4 T^4),$$

$$\text{Knot}[8, 21] \rightarrow \frac{1}{S^4 T^4} (1 - 4 S + 5 S^2 - 4 S^3 + S^4 - 4 T + 12 S T - 3 S^2 T - 3 S^3 T + 12 S^4 T - 4 S^5 T + 5 T^2 - 3 S T^2 - 39 S^2 T^2 + 41 S^3 T^2 - 39 S^4 T^2 - 3 S^5 T^2 + 5 S^6 T^2 - 4 T^3 - 3 S T^3 + 41 S^2 T^3 - 4 S^3 T^3 - 4 S^4 T^3 + 41 S^5 T^3 - 3 S^6 T^3 - 4 S^7 T^3 + T^4 + 12 S T^4 - 39 S^2 T^4 - 4 S^3 T^4 - 12 S^4 T^4 - 4 S^5 T^4 - 39 S^6 T^4 + 12 S^7 T^4 + S^8 T^4 - 4 S T^5 - 3 S^2 T^5 + 41 S^3 T^5 - 4 S^4 T^5 - 4 S^5 T^5 + 41 S^6 T^5 - 3 S^7 T^5 - 4 S^8 T^5 + 5 S^2 T^6 - 3 S^3 T^6 - 39 S^4 T^6 + 41 S^5 T^6 - 39 S^6 T^6 - 3 S^7 T^6 + 5 S^8 T^6 - 4 S^3 T^7 + 12 S^4 T^7 - 3 S^5 T^7 - 3 S^6 T^7 + 12 S^7 T^7 - 4 S^8 T^7 + S^4 T^8 - 4 S^5 T^8 + 5 S^6 T^8 - 4 S^7 T^8 + S^8 T^8),$$

$$\text{Knot}[9, 1] \rightarrow -\frac{1}{S^8 T^8} (4 - 4 S + 4 S^2 - 4 S^3 + 4 S^4 - 4 S^5 + 4 S^6 - 4 S^7 + 4 S^8 - 4 T - 4 S^9 T + 4 T^2 + 3 S^2 T^2 - 3 S^3 T^2 + 3 S^4 T^2 - 3 S^5 T^2 + 3 S^6 T^2 - 3 S^7 T^2 + 3 S^8 T^2 + 4 S^{10} T^2 - 4 T^3 - 3 S^2 T^3 - 3 S^9 T^3 - 4 S^{11} T^3 + 4 T^4 + 3 S^2 T^4 + 2 S^4 T^4 - 2 S^5 T^4 + 2 S^6 T^4 - 2 S^7 T^4 + 2 S^8 T^4 + 3 S^{10} T^4 + 4 S^{12} T^4 - 4 T^5 - 3 S^2 T^5 - 2 S^4 T^5 - 2 S^9 T^5 - 3 S^{11} T^5 - 4 S^{13} T^5 + 4 T^6 + 3 S^2 T^6 + 2 S^4 T^6 + S^6 T^6 - S^7 T^6 + S^8 T^6 + 2 S^{10} T^6 + 3 S^{12} T^6 + 4 S^{14} T^6 - 4 T^7 - 3 S^2 T^7 - 2 S^4 T^7 - S^6 T^7 - S^9 T^7 - 2 S^{11} T^7 - 3 S^{13} T^7 - 4 S^{15} T^7 + 4 T^8 + 3 S^2 T^8 + 2 S^4 T^8 + S^6 T^8 + S^{10} T^8 + 2 S^{12} T^8 + 3 S^{14} T^8 + 4 S^{16} T^8 - 4 S T^9 - 3 S^3 T^9 - 2 S^5 T^9 - S^7 T^9 - S^{10} T^9 - 2 S^{12} T^9 - 3 S^{14} T^9 - 4 S^{16} T^9 + 4 S^2 T^{10} + 3 S^4 T^{10} + 2 S^6 T^{10} + S^8 T^{10} - S^9 T^{10} + S^{10} T^{10} + 2 S^{12} T^{10} + 3 S^{14} T^{10} + 4 S^{16} T^{10} - 4 S^3 T^{11} - 3 S^5 T^{11} - 2 S^7 T^{11} - 2 S^{12} T^{11} - 3 S^{14} T^{11} - 4 S^{16} T^{11} + 4 S^4 T^{12} + 3 S^6 T^{12} + 2 S^8 T^{12} - 2 S^9 T^{12} + 2 S^{10} T^{12} - 2 S^{11} T^{12} + 2 S^{12} T^{12} + 3 S^{14} T^{12} + 4 S^{16} T^{12} - 4 S^5 T^{13} - 3 S^7 T^{13} - 3 S^{14} T^{13} - 4 S^{16} T^{13} + 4 S^6 T^{14} + 3 S^8 T^{14} - 3 S^9 T^{14} + 3 S^{10} T^{14} - 3 S^{11} T^{14} + 3 S^{12} T^{14} - 3 S^{13} T^{14} + 3 S^{14} T^{14} + 4 S^{16} T^{14} - 4 S^7 T^{15} - 4 S^{16} T^{15} + 4 S^8 T^{16} - 4 S^9 T^{16} + 4 S^{10} T^{16} - 4 S^{11} T^{16} + 4 S^{12} T^{16} - 4 S^{13} T^{16} + 4 S^{14} T^{16} - 4 S^{15} T^{16} + 4 S^{16} T^{16}),$$

$$\text{Knot}[9, 2] \rightarrow -\frac{1}{S^2 T^2} 10 (10 - 17 S + 10 S^2 - 17 T + 12 S T + 12 S^2 T - 17 S^3 T + 10 T^2 + 12 S T^2 - 30 S^2 T^2 + 12 S^3 T^2 + 10 S^4 T^2 - 17 S T^3 + 12 S^2 T^3 + 12 S^3 T^3 - 17 S^4 T^3 + 10 S^2 T^4 - 17 S^3 T^4 + 10 S^4 T^4),$$

$$\text{Knot}[9, 3] \rightarrow \frac{1}{S^6 T^6} (25 - 37 S + 37 S^2 - 37 S^3 + 37 S^4 - 37 S^5 + 25 S^6 - 37 T + 18 S T + 18 S^6 T - 37 S^7 T + 37 T^2 + 2 S^2 T^2 - 16 S^3 T^2 + 16 S^4 T^2 - 16 S^5 T^2 + 2 S^6 T^2 + 37 S^8 T^2 - 37 T^3 - 16 S^2 T^3 + 12 S^3 T^3 + 12 S^6 T^3 - 16 S^7 T^3 - 37 S^9 T^3 + 37 T^4 + 16 S^2 T^4 - S^4 T^4 - 7 S^5 T^4 - S^6 T^4 + 16 S^8 T^4 + 37 S^{10} T^4 - 37 T^5 - 16 S^2 T^5 - 7 S^4 T^5 + 6 S^5 T^5 + 6 S^6 T^5 - 7 S^7 T^5 - 16 S^9 T^5 - 37 S^{11} T^5 + 25 T^6 + 18 S T^6 + 2 S^2 T^6 + 12 S^3 T^6 - S^4 T^6 + 6 S^5 T^6 - 12 S^6 T^6 + 6 S^7 T^6 - S^8 T^6 + 12 S^9 T^6 + 2 S^{10} T^6 + 18 S^{11} T^6 + 25 S^{12} T^6 - 37 S T^7 - 16 S^3 T^7 - 7 S^5 T^7 + 6 S^6 T^7 + 6 S^7 T^7 - 7 S^8 T^7 - 16 S^{10} T^7 - 37 S^{12} T^7 + 37 S^2 T^8 + 16 S^4 T^8 - S^6 T^8 - 7 S^7 T^8 - S^8 T^8 + 16 S^{10} T^8 + 37 S^{12} T^8 - 37 S^3 T^9 -$$

$$\begin{aligned}
& 16 S^5 T^9 + 12 S^6 T^9 + 12 S^9 T^9 - 16 S^{10} T^9 - 37 S^{12} T^9 + 37 S^4 T^{10} + 2 S^6 T^{10} - 16 S^7 T^{10} + \\
& 16 S^8 T^{10} - 16 S^9 T^{10} + 2 S^{10} T^{10} + 37 S^{12} T^{10} - 37 S^5 T^{11} + 18 S^6 T^{11} + 18 S^{11} T^{11} - 37 S^{12} T^{11} + \\
& 25 S^6 T^{12} - 37 S^7 T^{12} + 37 S^8 T^{12} - 37 S^9 T^{12} + 37 S^{10} T^{12} - 37 S^{11} T^{12} + 25 S^{12} T^{12} \Big), \text{Knot}[9, 4] \rightarrow \\
& -\frac{1}{S^4 T^4} \Big(63 - 103 S + 103 S^2 - 103 S^3 + 63 S^4 - 103 T + 66 S T + 66 S^4 T - 103 S^5 T + 103 T^2 - 33 S^2 T^2 - \\
& 15 S^3 T^2 - 33 S^4 T^2 + 103 S^6 T^2 - 103 T^3 - 15 S^2 T^3 + 36 S^3 T^3 + 36 S^4 T^3 - 15 S^5 T^3 - 103 S^7 T^3 + 63 T^4 + \\
& 66 S T^4 - 33 S^2 T^4 + 36 S^3 T^4 - 84 S^4 T^4 + 36 S^5 T^4 - 33 S^6 T^4 + 66 S^7 T^4 + 63 S^8 T^4 - 103 S T^5 - 15 S^3 T^5 + \\
& 36 S^4 T^5 + 36 S^5 T^5 - 15 S^6 T^5 - 103 S^8 T^5 + 103 S^2 T^6 - 33 S^4 T^6 - 15 S^5 T^6 - 33 S^6 T^6 + 103 S^8 T^6 - \\
& 103 S^3 T^7 + 66 S^4 T^7 + 66 S^7 T^7 - 103 S^8 T^7 + 63 S^4 T^8 - 103 S^5 T^8 + 103 S^6 T^8 - 103 S^7 T^8 + 63 S^8 T^8 \Big), \\
& \text{Knot}[9, 5] \rightarrow \frac{1}{S^2 T^2} 5 \Big(63 - 113 S + 63 S^2 - 113 T + 90 S T + 90 S^2 T - 113 S^3 T + 63 T^2 + 90 S T^2 - 240 S^2 T^2 + \\
& 90 S^3 T^2 + 63 S^4 T^2 - 113 S T^3 + 90 S^2 T^3 + 90 S^3 T^3 - 113 S^4 T^3 + 63 S^2 T^4 - 113 S^3 T^4 + 63 S^4 T^4 \Big), \\
& \text{Knot}[9, 6] \rightarrow -\frac{1}{S^6 T^6} \Big(25 - 49 S + 61 S^2 - 61 S^3 + 61 S^4 - 49 S^5 + 25 S^6 - 49 T + 48 S T - 24 S^2 T - 24 S^5 T + \\
& 48 S^6 T - 49 S^7 T + 61 T^2 - 24 S T^2 + 10 S^2 T^2 - 14 S^3 T^2 + 40 S^4 T^2 - 14 S^5 T^2 + 10 S^6 T^2 - 24 S^7 T^2 + \\
& 61 S^8 T^2 - 61 T^3 - 14 S^2 T^3 + 14 S^3 T^3 - 22 S^4 T^3 - 22 S^5 T^3 + 14 S^6 T^3 - 14 S^7 T^3 - 61 S^9 T^3 + 61 T^4 + \\
& 40 S^2 T^4 - 22 S^3 T^4 + 31 S^4 T^4 - 3 S^5 T^4 + 31 S^6 T^4 - 22 S^7 T^4 + 40 S^8 T^4 + 61 S^{10} T^4 - 49 T^5 - 24 S T^5 - \\
& 14 S^2 T^5 - 22 S^3 T^5 - 3 S^4 T^5 - 14 S^5 T^5 - 14 S^6 T^5 - 3 S^7 T^5 - 22 S^8 T^5 - 14 S^9 T^5 - 24 S^{10} T^5 - 49 S^{11} T^5 + \\
& 25 T^6 + 48 S T^6 + 10 S^2 T^6 + 14 S^3 T^6 + 31 S^4 T^6 - 14 S^5 T^6 + 36 S^6 T^6 - 14 S^7 T^6 + 31 S^8 T^6 + 14 S^9 T^6 + \\
& 10 S^{10} T^6 + 48 S^{11} T^6 + 25 S^{12} T^6 - 49 S T^7 - 24 S^2 T^7 - 14 S^3 T^7 - 22 S^4 T^7 - 3 S^5 T^7 - 14 S^6 T^7 - 14 S^7 T^7 - \\
& 3 S^8 T^7 - 22 S^9 T^7 - 14 S^{10} T^7 - 24 S^{11} T^7 - 49 S^{12} T^7 + 61 S^2 T^8 + 40 S^4 T^8 - 22 S^5 T^8 + 31 S^6 T^8 - 3 S^7 T^8 + \\
& 31 S^8 T^8 - 22 S^9 T^8 + 40 S^{10} T^8 + 61 S^{12} T^8 - 61 S^3 T^9 - 14 S^5 T^9 + 14 S^6 T^9 - 22 S^7 T^9 - 22 S^8 T^9 + \\
& 14 S^9 T^9 - 14 S^{10} T^9 - 61 S^{12} T^9 + 61 S^4 T^{10} - 24 S^5 T^{10} + 10 S^6 T^{10} - 14 S^7 T^{10} + 40 S^8 T^{10} - 14 S^9 T^{10} + \\
& 10 S^{10} T^{10} - 24 S^{11} T^{10} + 61 S^{12} T^{10} - 49 S^5 T^{11} + 48 S^6 T^{11} - 24 S^7 T^{11} - 24 S^{10} T^{11} + 48 S^{11} T^{11} - \\
& 49 S^{12} T^{11} + 25 S^6 T^{12} - 49 S^7 T^{12} + 61 S^8 T^{12} - 61 S^9 T^{12} + 61 S^{10} T^{12} - 49 S^{11} T^{12} + 25 S^{12} T^{12} \Big), \\
& \text{Knot}[9, 7] \rightarrow -\frac{1}{S^4 T^4} \Big(63 - 143 S + 183 S^2 - 143 S^3 + 63 S^4 - 143 T + 184 S T - 92 S^2 T - 92 S^3 T + \\
& 184 S^4 T - 143 S^5 T + 183 T^2 - 92 S T^2 - 60 S^2 T^2 + 172 S^3 T^2 - 60 S^4 T^2 - 92 S^5 T^2 + 183 S^6 T^2 - \\
& 143 T^3 - 92 S T^3 + 172 S^2 T^3 - 118 S^3 T^3 - 118 S^4 T^3 + 172 S^5 T^3 - 92 S^6 T^3 - 143 S^7 T^3 + 63 T^4 + \\
& 184 S T^4 - 60 S^2 T^4 - 118 S^3 T^4 + 276 S^4 T^4 - 118 S^5 T^4 - 60 S^6 T^4 + 184 S^7 T^4 + 63 S^8 T^4 - 143 S T^5 - \\
& 92 S^2 T^5 + 172 S^3 T^5 - 118 S^4 T^5 - 118 S^5 T^5 + 172 S^6 T^5 - 92 S^7 T^5 - 143 S^8 T^5 + 183 S^2 T^6 - \\
& 92 S^3 T^6 - 60 S^4 T^6 + 172 S^5 T^6 - 60 S^6 T^6 - 92 S^7 T^6 + 183 S^8 T^6 - 143 S^3 T^7 + 184 S^4 T^7 - 92 S^5 T^7 - \\
& 92 S^6 T^7 + 184 S^7 T^7 - 143 S^8 T^7 + 63 S^4 T^8 - 143 S^5 T^8 + 183 S^6 T^8 - 143 S^7 T^8 + 63 S^8 T^8 \Big), \\
& \text{Knot}[9, 8] \rightarrow \frac{1}{S^4 T^4} \Big(7 - 27 S + 37 S^2 - 27 S^3 + 7 S^4 - 27 T + 76 S T - 38 S^2 T - 38 S^3 T + 76 S^4 T - \\
& 27 S^5 T + 37 T^2 - 38 S T^2 - 160 S^2 T^2 + 258 S^3 T^2 - 160 S^4 T^2 - 38 S^5 T^2 + 37 S^6 T^2 - 27 T^3 - \\
& 38 S T^3 + 258 S^2 T^3 - 142 S^3 T^3 - 142 S^4 T^3 + 258 S^5 T^3 - 38 S^6 T^3 - 27 S^7 T^3 + 7 T^4 + 76 S T^4 - \\
& 160 S^2 T^4 - 142 S^3 T^4 + 324 S^4 T^4 - 142 S^5 T^4 - 160 S^6 T^4 + 76 S^7 T^4 + 7 S^8 T^4 - 27 S T^5 - \\
& 38 S^2 T^5 + 258 S^3 T^5 - 142 S^4 T^5 - 142 S^5 T^5 + 258 S^6 T^5 - 38 S^7 T^5 - 27 S^8 T^5 + 37 S^2 T^6 - \\
& 38 S^3 T^6 - 160 S^4 T^6 + 258 S^5 T^6 - 160 S^6 T^6 - 38 S^7 T^6 + 37 S^8 T^6 - 27 S^3 T^7 + 76 S^4 T^7 - 38 S^5 T^7 - \\
& 38 S^6 T^7 + 76 S^7 T^7 - 27 S^8 T^7 + 7 S^4 T^8 - 27 S^5 T^8 + 37 S^6 T^8 - 27 S^7 T^8 + 7 S^8 T^8 \Big), \text{Knot}[9, 9] \rightarrow \\
& -\frac{1}{S^6 T^6} \Big(25 - 49 S + 73 S^2 - 85 S^3 + 73 S^4 - 49 S^5 + 25 S^6 - 49 T + 48 S T - 48 S^2 T + 24 S^3 T + 24 S^4 T - \\
& 48 S^5 T + 48 S^6 T - 49 S^7 T + 73 T^2 - 48 S T^2 + 82 S^2 T^2 - 82 S^3 T^2 + 66 S^4 T^2 - 82 S^5 T^2 + 82 S^6 T^2 - \\
& 48 S^7 T^2 + 73 S^8 T^2 - 85 T^3 + 24 S T^3 - 82 S^2 T^3 + 44 S^3 T^3 - 4 S^4 T^3 - 4 S^5 T^3 + 44 S^6 T^3 - 82 S^7 T^3 +
\end{aligned}$$

$$\begin{aligned}
& 24 S^8 T^3 - 85 S^9 T^3 + 73 T^4 + 24 S T^4 + 66 S^2 T^4 - 4 S^3 T^4 + 3 S^4 T^4 - 27 S^5 T^4 + 3 S^6 T^4 - 4 S^7 T^4 + \\
& 66 S^8 T^4 + 24 S^9 T^4 + 73 S^{10} T^4 - 49 T^5 - 48 S T^5 - 82 S^2 T^5 - 4 S^3 T^5 - 27 S^4 T^5 + 28 S^5 T^5 + 28 S^6 T^5 - \\
& 27 S^7 T^5 - 4 S^8 T^5 - 82 S^9 T^5 - 48 S^{10} T^5 - 49 S^{11} T^5 + 25 T^6 + 48 S T^6 + 82 S^2 T^6 + 44 S^3 T^6 + 3 S^4 T^6 + \\
& 28 S^5 T^6 - 72 S^6 T^6 + 28 S^7 T^6 + 3 S^8 T^6 + 44 S^9 T^6 + 82 S^{10} T^6 + 48 S^{11} T^6 + 25 S^{12} T^6 - 49 S T^7 - 48 S^2 T^7 - \\
& 82 S^3 T^7 - 4 S^4 T^7 - 27 S^5 T^7 + 28 S^6 T^7 + 28 S^7 T^7 - 27 S^8 T^7 - 4 S^9 T^7 - 82 S^{10} T^7 - 48 S^{11} T^7 - 49 S^{12} T^7 + \\
& 73 S^2 T^8 + 24 S^3 T^8 + 66 S^4 T^8 - 4 S^5 T^8 + 3 S^6 T^8 - 27 S^7 T^8 + 3 S^8 T^8 - 4 S^9 T^8 + 66 S^{10} T^8 + 24 S^{11} T^8 + \\
& 73 S^{12} T^8 - 85 S^3 T^9 + 24 S^4 T^9 - 82 S^5 T^9 + 44 S^6 T^9 - 4 S^7 T^9 - 4 S^8 T^9 + 44 S^9 T^9 - 82 S^{10} T^9 + 24 S^{11} T^9 - \\
& 85 S^{12} T^9 + 73 S^4 T^{10} - 48 S^5 T^{10} + 82 S^6 T^{10} - 82 S^7 T^{10} + 66 S^8 T^{10} - 82 S^9 T^{10} + 82 S^{10} T^{10} - 48 S^{11} T^{10} + \\
& 73 S^{12} T^{10} - 49 S^5 T^{11} + 48 S^6 T^{11} - 48 S^7 T^{11} + 24 S^8 T^{11} + 24 S^9 T^{11} - 48 S^{10} T^{11} + 48 S^{11} T^{11} - \\
& 49 S^{12} T^{11} + 25 S^6 T^{12} - 49 S^7 T^{12} + 73 S^8 T^{12} - 85 S^9 T^{12} + 73 S^{10} T^{12} - 49 S^{11} T^{12} + 25 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[9, 10] & \rightarrow \frac{1}{S^4 T^4} 2 \left(72 - 140 S + 156 S^2 - 140 S^3 + 72 S^4 - 140 T + 134 S T - 32 S^2 T - 32 S^3 T + \right. \\
& 134 S^4 T - 140 S^5 T + 156 T^2 - 32 S T^2 - 73 S^2 T^2 + 47 S^3 T^2 - 73 S^4 T^2 - 32 S^5 T^2 + 156 S^6 T^2 - \\
& 140 T^3 - 32 S T^3 + 47 S^2 T^3 + 20 S^3 T^3 + 20 S^4 T^3 + 47 S^5 T^3 - 32 S^6 T^3 - 140 S^7 T^3 + 72 T^4 + \\
& 134 S T^4 - 73 S^2 T^4 + 20 S^3 T^4 - 72 S^4 T^4 + 20 S^5 T^4 - 73 S^6 T^4 + 134 S^7 T^4 + 72 S^8 T^4 - 140 S T^5 - \\
& 32 S^2 T^5 + 47 S^3 T^5 + 20 S^4 T^5 + 20 S^5 T^5 + 47 S^6 T^5 - 32 S^7 T^5 - 140 S^8 T^5 + 156 S^2 T^6 - 32 S^3 T^6 - \\
& 73 S^4 T^6 + 47 S^5 T^6 - 73 S^6 T^6 - 32 S^7 T^6 + 156 S^8 T^6 - 140 S^3 T^7 + 134 S^4 T^7 - 32 S^5 T^7 - \\
& \left. 32 S^6 T^7 + 134 S^7 T^7 - 140 S^8 T^7 + 72 S^4 T^8 - 140 S^5 T^8 + 156 S^6 T^8 - 140 S^7 T^8 + 72 S^8 T^8 \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[9, 11] & \rightarrow -\frac{1}{S^6 T^6} \left(2 - 10 S + 14 S^2 - 14 S^3 + 14 S^4 - 10 S^5 + 2 S^6 - 10 T + 40 S T - 20 S^2 T - \right. \\
& 20 S^5 T + 40 S^6 T - 10 S^7 T + 14 T^2 - 20 S T^2 - 133 S^2 T^2 + 177 S^3 T^2 - 151 S^4 T^2 + 177 S^5 T^2 - \\
& 133 S^6 T^2 - 20 S^7 T^2 + 14 S^8 T^2 - 14 T^3 + 177 S^2 T^3 - 70 S^3 T^3 - 18 S^4 T^3 - 18 S^5 T^3 - 70 S^6 T^3 + \\
& 177 S^7 T^3 - 14 S^9 T^3 + 14 T^4 - 151 S^2 T^4 - 18 S^3 T^4 + 27 S^4 T^4 + 45 S^5 T^4 + 27 S^6 T^4 - 18 S^7 T^4 - \\
& 151 S^8 T^4 + 14 S^{10} T^4 - 10 T^5 - 20 S T^5 + 177 S^2 T^5 - 18 S^3 T^5 + 45 S^4 T^5 - 50 S^5 T^5 - 50 S^6 T^5 + \\
& 45 S^7 T^5 - 18 S^8 T^5 + 177 S^9 T^5 - 20 S^{10} T^5 - 10 S^{11} T^5 + 2 T^6 + 40 S T^6 - 133 S^2 T^6 - 70 S^3 T^6 + \\
& 27 S^4 T^6 - 50 S^5 T^6 + 108 S^6 T^6 - 50 S^7 T^6 + 27 S^8 T^6 - 70 S^9 T^6 - 133 S^{10} T^6 + 40 S^{11} T^6 + 2 S^{12} T^6 - \\
& 10 S T^7 - 20 S^2 T^7 + 177 S^3 T^7 - 18 S^4 T^7 + 45 S^5 T^7 - 50 S^6 T^7 - 50 S^7 T^7 + 45 S^8 T^7 - 18 S^9 T^7 + \\
& 177 S^{10} T^7 - 20 S^{11} T^7 - 10 S^{12} T^7 + 14 S^2 T^8 - 151 S^4 T^8 - 18 S^5 T^8 + 27 S^6 T^8 + 45 S^7 T^8 + 27 S^8 T^8 - \\
& 18 S^9 T^8 - 151 S^{10} T^8 + 14 S^{12} T^8 - 14 S^3 T^9 + 177 S^5 T^9 - 70 S^6 T^9 - 18 S^7 T^9 - 18 S^8 T^9 - 70 S^9 T^9 + \\
& 177 S^{10} T^9 - 14 S^{12} T^9 + 14 S^4 T^{10} - 20 S^5 T^{10} - 133 S^6 T^{10} + 177 S^7 T^{10} - 151 S^8 T^{10} + 177 S^9 T^{10} - \\
& 133 S^{10} T^{10} - 20 S^{11} T^{10} + 14 S^{12} T^{10} - 10 S^5 T^{11} + 40 S^6 T^{11} - 20 S^7 T^{11} - 20 S^{10} T^{11} + 40 S^{11} T^{11} - \\
& \left. 10 S^{12} T^{11} + 2 S^6 T^{12} - 10 S^7 T^{12} + 14 S^8 T^{12} - 14 S^9 T^{12} + 14 S^{10} T^{12} - 10 S^{11} T^{12} + 2 S^{12} T^{12} \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[9, 12] & \rightarrow \frac{1}{S^4 T^4} \left(9 - 41 S + 59 S^2 - 41 S^3 + 9 S^4 - 41 T + 146 S T - 82 S^2 T - 82 S^3 T + \right. \\
& 146 S^4 T - 41 S^5 T + 59 T^2 - 82 S T^2 - 391 S^2 T^2 + 667 S^3 T^2 - 391 S^4 T^2 - 82 S^5 T^2 + 59 S^6 T^2 - \\
& 41 T^3 - 82 S T^3 + 667 S^2 T^3 - 392 S^3 T^3 - 392 S^4 T^3 + 667 S^5 T^3 - 82 S^6 T^3 - 41 S^7 T^3 + 9 T^4 + \\
& 146 S T^4 - 391 S^2 T^4 - 392 S^3 T^4 + 888 S^4 T^4 - 392 S^5 T^4 - 391 S^6 T^4 + 146 S^7 T^4 + 9 S^8 T^4 - \\
& 41 S T^5 - 82 S^2 T^5 + 667 S^3 T^5 - 392 S^4 T^5 - 392 S^5 T^5 + 667 S^6 T^5 - 82 S^7 T^5 - 41 S^8 T^5 + 59 S^2 T^6 - \\
& 82 S^3 T^6 - 391 S^4 T^6 + 667 S^5 T^6 - 391 S^6 T^6 - 82 S^7 T^6 + 59 S^8 T^6 - 41 S^3 T^7 + 146 S^4 T^7 - \\
& \left. 82 S^5 T^7 - 82 S^6 T^7 + 146 S^7 T^7 - 41 S^8 T^7 + 9 S^4 T^8 - 41 S^5 T^8 + 59 S^6 T^8 - 41 S^7 T^8 + 9 S^8 T^8 \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[9, 13] & \rightarrow \frac{1}{S^4 T^4} 2 \left(72 - 158 S + 192 S^2 - 158 S^3 + 72 S^4 - 158 T + 191 S T - 76 S^2 T - 76 S^3 T + \right. \\
& 191 S^4 T - 158 S^5 T + 192 T^2 - 76 S T^2 - 97 S^2 T^2 + 151 S^3 T^2 - 97 S^4 T^2 - 76 S^5 T^2 + 192 S^6 T^2 - \\
& 158 T^3 - 76 S T^3 + 151 S^2 T^3 - 59 S^3 T^3 - 59 S^4 T^3 + 151 S^5 T^3 - 76 S^6 T^3 - 158 S^7 T^3 + 72 T^4 + \\
& 191 S T^4 - 97 S^2 T^4 - 59 S^3 T^4 + 108 S^4 T^4 - 59 S^5 T^4 - 97 S^6 T^4 + 191 S^7 T^4 + 72 S^8 T^4 - 158 S T^5 - \\
& \left. 76 S^2 T^5 + 151 S^3 T^5 - 59 S^4 T^5 - 59 S^5 T^5 + 151 S^6 T^5 - 76 S^7 T^5 - 158 S^8 T^5 + 192 S^2 T^6 - 76 S^3 T^6 - \right.
\end{aligned}$$

$$97 S^4 T^6 + 151 S^5 T^6 - 97 S^6 T^6 - 76 S^7 T^6 + 192 S^8 T^6 - 158 S^3 T^7 + 191 S^4 T^7 - 76 S^5 T^7 - 76 S^6 T^7 + 191 S^7 T^7 - 158 S^8 T^7 + 72 S^4 T^8 - 158 S^5 T^8 + 192 S^6 T^8 - 158 S^7 T^8 + 72 S^8 T^8),$$

$$\text{Knot}[9, 14] \rightarrow \frac{1}{S^4 T^4} (1 - 5 S + 9 S^2 - 5 S^3 + S^4 - 5 T + 20 S T - 20 S^2 T - 20 S^3 T + 20 S^4 T - 5 S^5 T + 9 T^2 - 20 S T^2 - 36 S^2 T^2 + 146 S^3 T^2 - 36 S^4 T^2 - 20 S^5 T^2 + 9 S^6 T^2 - 5 T^3 - 20 S T^3 + 146 S^2 T^3 - 190 S^3 T^3 - 190 S^4 T^3 + 146 S^5 T^3 - 20 S^6 T^3 - 5 S^7 T^3 + T^4 + 20 S T^4 - 36 S^2 T^4 - 190 S^3 T^4 + 600 S^4 T^4 - 190 S^5 T^4 - 36 S^6 T^4 + 20 S^7 T^4 + S^8 T^4 - 5 S T^5 - 20 S^2 T^5 + 146 S^3 T^5 - 190 S^4 T^5 - 190 S^5 T^5 + 146 S^6 T^5 - 20 S^7 T^5 - 5 S^8 T^5 + 9 S^2 T^6 - 20 S^3 T^6 - 36 S^4 T^6 + 146 S^5 T^6 - 36 S^6 T^6 - 20 S^7 T^6 + 9 S^8 T^6 - 5 S^3 T^7 + 20 S^4 T^7 - 20 S^5 T^7 - 20 S^6 T^7 + 20 S^7 T^7 - 5 S^8 T^7 + S^4 T^8 - 5 S^5 T^8 + 9 S^6 T^8 - 5 S^7 T^8 + S^8 T^8),$$

$$\text{Knot}[9, 15] \rightarrow -\frac{1}{S^4 T^4} (9 - 45 S + 67 S^2 - 45 S^3 + 9 S^4 - 45 T + 180 S T - 110 S^2 T - 110 S^3 T + 180 S^4 T - 45 S^5 T + 67 T^2 - 110 S T^2 - 543 S^2 T^2 + 979 S^3 T^2 - 543 S^4 T^2 - 110 S^5 T^2 + 67 S^6 T^2 - 45 T^3 - 110 S T^3 + 979 S^2 T^3 - 628 S^3 T^3 - 628 S^4 T^3 + 979 S^5 T^3 - 110 S^6 T^3 - 45 S^7 T^3 + 9 T^4 + 180 S T^4 - 543 S^2 T^4 - 628 S^3 T^4 + 1476 S^4 T^4 - 628 S^5 T^4 - 543 S^6 T^4 + 180 S^7 T^4 + 9 S^8 T^4 - 45 S T^5 - 110 S^2 T^5 + 979 S^3 T^5 - 628 S^4 T^5 - 628 S^5 T^5 + 979 S^6 T^5 - 110 S^7 T^5 - 45 S^8 T^5 + 67 S^2 T^6 - 110 S^3 T^6 - 543 S^4 T^6 + 979 S^5 T^6 - 543 S^6 T^6 - 110 S^7 T^6 + 67 S^8 T^6 - 45 S^3 T^7 + 180 S^4 T^7 - 110 S^5 T^7 - 110 S^6 T^7 + 180 S^7 T^7 - 45 S^8 T^7 + 9 S^4 T^8 - 45 S^5 T^8 + 67 S^6 T^8 - 45 S^7 T^8 + 9 S^8 T^8),$$

$$\text{Knot}[9, 16] \rightarrow \frac{1}{S^6 T^6} (25 - 61 S + 96 S^2 - 107 S^3 + 96 S^4 - 61 S^5 + 25 S^6 - 61 T + 90 S T - 89 S^2 T + 29 S^3 T + 29 S^4 T - 89 S^5 T + 90 S^6 T - 61 S^7 T + 96 T^2 - 89 S T^2 + 89 S^2 T^2 - 40 S^3 T^2 + 53 S^4 T^2 - 40 S^5 T^2 + 89 S^6 T^2 - 89 S^7 T^2 + 96 S^8 T^2 - 107 T^3 + 29 S T^3 - 40 S^2 T^3 - 16 S^3 T^3 - 24 S^4 T^3 - 24 S^5 T^3 - 16 S^6 T^3 - 40 S^7 T^3 + 29 S^8 T^3 - 107 S^9 T^3 + 96 T^4 + 29 S T^4 + 53 S^2 T^4 - 24 S^3 T^4 + 111 S^4 T^4 - 49 S^5 T^4 + 111 S^6 T^4 - 24 S^7 T^4 + 53 S^8 T^4 + 29 S^9 T^4 + 96 S^{10} T^4 - 61 T^5 - 89 S T^5 - 40 S^2 T^5 - 24 S^3 T^5 - 49 S^4 T^5 - 42 S^5 T^5 - 42 S^6 T^5 - 49 S^7 T^5 - 24 S^8 T^5 - 40 S^9 T^5 - 89 S^{10} T^5 - 61 S^{11} T^5 + 25 T^6 + 90 S T^6 + 89 S^2 T^6 - 16 S^3 T^6 + 111 S^4 T^6 - 42 S^5 T^6 + 144 S^6 T^6 - 42 S^7 T^6 + 111 S^8 T^6 - 16 S^9 T^6 + 89 S^{10} T^6 + 90 S^{11} T^6 + 25 S^{12} T^6 - 61 S T^7 - 89 S^2 T^7 - 40 S^3 T^7 - 24 S^4 T^7 - 49 S^5 T^7 - 42 S^6 T^7 - 42 S^7 T^7 - 49 S^8 T^7 - 24 S^9 T^7 - 40 S^{10} T^7 - 89 S^{11} T^7 - 61 S^{12} T^7 + 96 S^2 T^8 + 29 S^3 T^8 + 53 S^4 T^8 - 24 S^5 T^8 + 111 S^6 T^8 - 49 S^7 T^8 + 111 S^8 T^8 - 24 S^9 T^8 + 53 S^{10} T^8 + 29 S^{11} T^8 + 96 S^{12} T^8 - 107 S^3 T^9 + 29 S^4 T^9 - 40 S^5 T^9 - 16 S^6 T^9 - 24 S^7 T^9 - 24 S^8 T^9 - 16 S^9 T^9 - 40 S^{10} T^9 + 29 S^{11} T^9 - 107 S^{12} T^9 + 96 S^4 T^{10} - 89 S^5 T^{10} + 89 S^6 T^{10} - 40 S^7 T^{10} + 53 S^8 T^{10} - 40 S^9 T^{10} + 89 S^{10} T^{10} - 89 S^{11} T^{10} + 96 S^{12} T^{10} - 61 S^5 T^{11} + 90 S^6 T^{11} - 89 S^7 T^{11} + 29 S^8 T^{11} + 29 S^9 T^{11} - 89 S^{10} T^{11} + 90 S^{11} T^{11} - 61 S^{12} T^{11} + 25 S^6 T^{12} - 61 S^7 T^{12} + 96 S^8 T^{12} - 107 S^9 T^{12} + 96 S^{10} T^{12} - 61 S^{11} T^{12} + 25 S^{12} T^{12}),$$

$$\text{Knot}[9, 17] \rightarrow -\frac{1}{S^6 T^6} (1 - 5 S + 9 S^2 - 9 S^3 + 9 S^4 - 5 S^5 + S^6 - 5 T + 20 S T - 20 S^2 T - 20 S^5 T + 20 S^6 T - 5 S^7 T + 9 T^2 - 20 S T^2 - 34 S^2 T^2 + 98 S^3 T^2 - 66 S^4 T^2 + 98 S^5 T^2 - 34 S^6 T^2 - 20 S^7 T^2 + 9 S^8 T^2 - 9 T^3 + 98 S^2 T^3 - 116 S^3 T^3 - 16 S^4 T^3 - 16 S^5 T^3 - 116 S^6 T^3 + 98 S^7 T^3 - 9 S^9 T^3 + 9 T^4 - 66 S^2 T^4 - 16 S^3 T^4 + 193 S^4 T^4 - 125 S^5 T^4 + 193 S^6 T^4 - 16 S^7 T^4 - 66 S^8 T^4 + 9 S^{10} T^4 - 5 T^5 - 20 S T^5 + 98 S^2 T^5 - 16 S^3 T^5 - 125 S^4 T^5 + 12 S^5 T^5 + 12 S^6 T^5 - 125 S^7 T^5 - 16 S^8 T^5 + 98 S^9 T^5 - 20 S^{10} T^5 - 5 S^{11} T^5 + T^6 + 20 S T^6 - 34 S^2 T^6 - 116 S^3 T^6 + 193 S^4 T^6 + 12 S^5 T^6 - 48 S^6 T^6 + 12 S^7 T^6 + 193 S^8 T^6 - 116 S^9 T^6 - 34 S^{10} T^6 + 20 S^{11} T^6 + S^{12} T^6 - 5 S T^7 - 20 S^2 T^7 + 98 S^3 T^7 - 16 S^4 T^7 - 125 S^5 T^7 + 12 S^6 T^7 + 12 S^7 T^7 - 125 S^8 T^7 - 16 S^9 T^7 + 98 S^{10} T^7 - 20 S^{11} T^7 - 5 S^{12} T^7 + 9 S^2 T^8 - 66 S^4 T^8 - 16 S^5 T^8 + 193 S^6 T^8 - 125 S^7 T^8 + 193 S^8 T^8 - 16 S^9 T^8 - 66 S^{10} T^8 + 9 S^{12} T^8 - 9 S^3 T^9 + 98 S^5 T^9 - 116 S^6 T^9 - 16 S^7 T^9 - 16 S^8 T^9 - 116 S^9 T^9 + 98 S^{10} T^9 - 9 S^{12} T^9 + 9 S^4 T^{10} - 20 S^5 T^{10} - 34 S^6 T^{10} + 98 S^7 T^{10} - 66 S^8 T^{10} + 98 S^9 T^{10} - 34 S^{10} T^{10} - 20 S^{11} T^{10} + 9 S^{12} T^{10} - 5 S^5 T^{11} + 20 S^6 T^{11} - 20 S^7 T^{11} - 20 S^{10} T^{11} + 20 S^{11} T^{11} - 5 S^{12} T^{11} + S^6 T^{12} - 5 S^7 T^{12} + 9 S^8 T^{12} - 9 S^9 T^{12} + 9 S^{10} T^{12} - 5 S^{11} T^{12} + S^{12} T^{12}),$$

$$\text{Knot}[9, 18] \rightarrow -\frac{1}{S^4 T^4} \left(144 - 348 S + 448 S^2 - 348 S^3 + 144 S^4 - 348 T + 502 S T - 248 S^2 T - \right. \\ \left. 248 S^3 T + 502 S^4 T - 348 S^5 T + 448 T^2 - 248 S T^2 - 265 S^2 T^2 + 579 S^3 T^2 - 265 S^4 T^2 - 248 S^5 T^2 + \right. \\ \left. 448 S^6 T^2 - 348 T^3 - 248 S T^3 + 579 S^2 T^3 - 340 S^3 T^3 - 340 S^4 T^3 + 579 S^5 T^3 - 248 S^6 T^3 - 348 S^7 T^3 + \right. \\ \left. 144 T^4 + 502 S T^4 - 265 S^2 T^4 - 340 S^3 T^4 + 744 S^4 T^4 - 340 S^5 T^4 - 265 S^6 T^4 + 502 S^7 T^4 + 144 S^8 T^4 - \right. \\ \left. 348 S T^5 - 248 S^2 T^5 + 579 S^3 T^5 - 340 S^4 T^5 - 340 S^5 T^5 + 579 S^6 T^5 - 248 S^7 T^5 - 348 S^8 T^5 + 448 S^2 T^6 - \right. \\ \left. 248 S^3 T^6 - 265 S^4 T^6 + 579 S^5 T^6 - 265 S^6 T^6 - 248 S^7 T^6 + 448 S^8 T^6 - 348 S^3 T^7 + 502 S^4 T^7 - 248 S^5 T^7 - \right. \\ \left. 248 S^6 T^7 + 502 S^7 T^7 - 348 S^8 T^7 + 144 S^4 T^8 - 348 S^5 T^8 + 448 S^6 T^8 - 348 S^7 T^8 + 144 S^8 T^8 \right),$$

$$\text{Knot}[9, 19] \rightarrow -\frac{1}{S^4 T^4} \left(1 - 5 S + 9 S^2 - 5 S^3 + S^4 - 5 T + 20 S T - 20 S^2 T - 20 S^3 T + 20 S^4 T - 5 S^5 T + \right. \\ \left. 9 T^2 - 20 S T^2 - 27 S^2 T^2 + 113 S^3 T^2 - 27 S^4 T^2 - 20 S^5 T^2 + 9 S^6 T^2 - 5 T^3 - 20 S T^3 + 113 S^2 T^3 - \right. \\ \left. 124 S^3 T^3 - 124 S^4 T^3 + 113 S^5 T^3 - 20 S^6 T^3 - 5 S^7 T^3 + T^4 + 20 S T^4 - 27 S^2 T^4 - 124 S^3 T^4 + 348 S^4 T^4 - \right. \\ \left. 124 S^5 T^4 - 27 S^6 T^4 + 20 S^7 T^4 + S^8 T^4 - 5 S T^5 - 20 S^2 T^5 + 113 S^3 T^5 - 124 S^4 T^5 - 124 S^5 T^5 + \right. \\ \left. 113 S^6 T^5 - 20 S^7 T^5 - 5 S^8 T^5 + 9 S^2 T^6 - 20 S^3 T^6 - 27 S^4 T^6 + 113 S^5 T^6 - 27 S^6 T^6 - 20 S^7 T^6 + 9 S^8 T^6 - \right. \\ \left. 5 S^3 T^7 + 20 S^4 T^7 - 20 S^5 T^7 - 20 S^6 T^7 + 20 S^7 T^7 - 5 S^8 T^7 + S^4 T^8 - 5 S^5 T^8 + 9 S^6 T^8 - 5 S^7 T^8 + S^8 T^8 \right),$$

$$\text{Knot}[9, 20] \rightarrow \frac{1}{S^6 T^6} \left(2 - 10 S + 18 S^2 - 22 S^3 + 18 S^4 - 10 S^5 + 2 S^6 - 10 T + 40 S T - 40 S^2 T + \right. \\ \left. 20 S^3 T + 20 S^4 T - 40 S^5 T + 40 S^6 T - 10 S^7 T + 18 T^2 - 40 S T^2 - 65 S^2 T^2 + 155 S^3 T^2 - \right. \\ \left. 217 S^4 T^2 + 155 S^5 T^2 - 65 S^6 T^2 - 40 S^7 T^2 + 18 S^8 T^2 - 22 T^3 + 20 S T^3 + 155 S^2 T^3 - 150 S^3 T^3 + \right. \\ \left. 94 S^4 T^3 + 94 S^5 T^3 - 150 S^6 T^3 + 155 S^7 T^3 + 20 S^8 T^3 - 22 S^9 T^3 + 18 T^4 + 20 S T^4 - 217 S^2 T^4 + \right. \\ \left. 94 S^3 T^4 - 34 S^4 T^4 - 94 S^5 T^4 - 34 S^6 T^4 + 94 S^7 T^4 - 217 S^8 T^4 + 20 S^9 T^4 + 18 S^{10} T^4 - 10 T^5 - \right. \\ \left. 40 S T^5 + 155 S^2 T^5 + 94 S^3 T^5 - 94 S^4 T^5 + 116 S^5 T^5 + 116 S^6 T^5 - 94 S^7 T^5 + 94 S^8 T^5 + \right. \\ \left. 155 S^9 T^5 - 40 S^{10} T^5 - 10 S^{11} T^5 + 2 T^6 + 40 S T^6 - 65 S^2 T^6 - 150 S^3 T^6 - 34 S^4 T^6 + 116 S^5 T^6 - \right. \\ \left. 300 S^6 T^6 + 116 S^7 T^6 - 34 S^8 T^6 - 150 S^9 T^6 - 65 S^{10} T^6 + 40 S^{11} T^6 + 2 S^{12} T^6 - 10 S T^7 - \right. \\ \left. 40 S^2 T^7 + 155 S^3 T^7 + 94 S^4 T^7 - 94 S^5 T^7 + 116 S^6 T^7 + 116 S^7 T^7 - 94 S^8 T^7 + 94 S^9 T^7 + \right. \\ \left. 155 S^{10} T^7 - 40 S^{11} T^7 - 10 S^{12} T^7 + 18 S^2 T^8 + 20 S^3 T^8 - 217 S^4 T^8 + 94 S^5 T^8 - 34 S^6 T^8 - \right. \\ \left. 94 S^7 T^8 - 34 S^8 T^8 + 94 S^9 T^8 - 217 S^{10} T^8 + 20 S^{11} T^8 + 18 S^{12} T^8 - 22 S^3 T^9 + 20 S^4 T^9 + \right. \\ \left. 155 S^5 T^9 - 150 S^6 T^9 + 94 S^7 T^9 + 94 S^8 T^9 - 150 S^9 T^9 + 155 S^{10} T^9 + 20 S^{11} T^9 - 22 S^{12} T^9 + \right. \\ \left. 18 S^4 T^{10} - 40 S^5 T^{10} - 65 S^6 T^{10} + 155 S^7 T^{10} - 217 S^8 T^{10} + 155 S^9 T^{10} - 65 S^{10} T^{10} - 40 S^{11} T^{10} + \right. \\ \left. 18 S^{12} T^{10} - 10 S^5 T^{11} + 40 S^6 T^{11} - 40 S^7 T^{11} + 20 S^8 T^{11} + 20 S^9 T^{11} - 40 S^{10} T^{11} + 40 S^{11} T^{11} - \right. \\ \left. 10 S^{12} T^{11} + 2 S^6 T^{12} - 10 S^7 T^{12} + 18 S^8 T^{12} - 22 S^9 T^{12} + 18 S^{10} T^{12} - 10 S^{11} T^{12} + 2 S^{12} T^{12} \right),$$

$$\text{Knot}[9, 21] \rightarrow -\frac{1}{S^4 T^4} \left(9 - 49 S + 75 S^2 - 49 S^3 + 9 S^4 - 49 T + 218 S T - 142 S^2 T - 142 S^3 T + \right. \\ \left. 218 S^4 T - 49 S^5 T + 75 T^2 - 142 S T^2 - 708 S^2 T^2 + 1330 S^3 T^2 - 708 S^4 T^2 - 142 S^5 T^2 + 75 S^6 T^2 - \right. \\ \left. 49 T^3 - 142 S T^3 + 1330 S^2 T^3 - 908 S^3 T^3 - 908 S^4 T^3 + 1330 S^5 T^3 - 142 S^6 T^3 - 49 S^7 T^3 + 9 T^4 + \right. \\ \left. 218 S T^4 - 708 S^2 T^4 - 908 S^3 T^4 + 2196 S^4 T^4 - 908 S^5 T^4 - 708 S^6 T^4 + 218 S^7 T^4 + 9 S^8 T^4 - 49 S T^5 - \right. \\ \left. 142 S^2 T^5 + 1330 S^3 T^5 - 908 S^4 T^5 - 908 S^5 T^5 + 1330 S^6 T^5 - 142 S^7 T^5 - 49 S^8 T^5 + 75 S^2 T^6 - \right. \\ \left. 142 S^3 T^6 - 708 S^4 T^6 + 1330 S^5 T^6 - 708 S^6 T^6 - 142 S^7 T^6 + 75 S^8 T^6 - 49 S^3 T^7 + 218 S^4 T^7 - \right. \\ \left. 142 S^5 T^7 - 142 S^6 T^7 + 218 S^7 T^7 - 49 S^8 T^7 + 9 S^4 T^8 - 49 S^5 T^8 + 75 S^6 T^8 - 49 S^7 T^8 + 9 S^8 T^8 \right),$$

$$\text{Knot}[9, 22] \rightarrow \frac{1}{S^6 T^6} \left(1 - 5 S + 10 S^2 - 11 S^3 + 10 S^4 - 5 S^5 + S^6 - 5 T + 20 S T - 25 S^2 T + 5 S^3 T + \right. \\ \left. 5 S^4 T - 25 S^5 T + 20 S^6 T - 5 S^7 T + 10 T^2 - 25 S T^2 - 15 S^2 T^2 + 91 S^3 T^2 - 81 S^4 T^2 + 91 S^5 T^2 - \right. \\ \left. 15 S^6 T^2 - 25 S^7 T^2 + 10 S^8 T^2 - 11 T^3 + 5 S T^3 + 91 S^2 T^3 - 148 S^3 T^3 + 16 S^4 T^3 + 16 S^5 T^3 - \right. \\ \left. 148 S^6 T^3 + 91 S^7 T^3 + 5 S^8 T^3 - 11 S^9 T^3 + 10 T^4 + 5 S T^4 - 81 S^2 T^4 + 16 S^3 T^4 + 222 S^4 T^4 - \right. \\ \left. 204 S^5 T^4 + 222 S^6 T^4 + 16 S^7 T^4 - 81 S^8 T^4 + 5 S^9 T^4 + 10 S^{10} T^4 - 5 T^5 - 25 S T^5 + 91 S^2 T^5 + \right. \\ \left. 16 S^3 T^5 - 204 S^4 T^5 + 50 S^5 T^5 + 50 S^6 T^5 - 204 S^7 T^5 + 16 S^8 T^5 + 91 S^9 T^5 - 25 S^{10} T^5 - 5 S^{11} T^5 + \right.$$

$$\begin{aligned}
& T^6 + 20 S T^6 - 15 S^2 T^6 - 148 S^3 T^6 + 222 S^4 T^6 + 50 S^5 T^6 - 108 S^6 T^6 + 50 S^7 T^6 + 222 S^8 T^6 - \\
& 148 S^9 T^6 - 15 S^{10} T^6 + 20 S^{11} T^6 + S^{12} T^6 - 5 S T^7 - 25 S^2 T^7 + 91 S^3 T^7 + 16 S^4 T^7 - 204 S^5 T^7 + \\
& 50 S^6 T^7 + 50 S^7 T^7 - 204 S^8 T^7 + 16 S^9 T^7 + 91 S^{10} T^7 - 25 S^{11} T^7 - 5 S^{12} T^7 + 10 S^2 T^8 + 5 S^3 T^8 - \\
& 81 S^4 T^8 + 16 S^5 T^8 + 222 S^6 T^8 - 204 S^7 T^8 + 222 S^8 T^8 + 16 S^9 T^8 - 81 S^{10} T^8 + 5 S^{11} T^8 + 10 S^{12} T^8 - \\
& 11 S^3 T^9 + 5 S^4 T^9 + 91 S^5 T^9 - 148 S^6 T^9 + 16 S^7 T^9 + 16 S^8 T^9 - 148 S^9 T^9 + 91 S^{10} T^9 + 5 S^{11} T^9 - \\
& 11 S^{12} T^9 + 10 S^4 T^{10} - 25 S^5 T^{10} - 15 S^6 T^{10} + 91 S^7 T^{10} - 81 S^8 T^{10} + 91 S^9 T^{10} - 15 S^{10} T^{10} - \\
& 25 S^{11} T^{10} + 10 S^{12} T^{10} - 5 S^5 T^{11} + 20 S^6 T^{11} - 25 S^7 T^{11} + 5 S^8 T^{11} + 5 S^9 T^{11} - 25 S^{10} T^{11} + 20 S^{11} T^{11} - \\
& 5 S^{12} T^{11} + S^6 T^{12} - 5 S^7 T^{12} + 10 S^8 T^{12} - 11 S^9 T^{12} + 10 S^{10} T^{12} - 5 S^{11} T^{12} + S^{12} T^{12}), \text{Knot}[9, 23] \rightarrow \\
& -\frac{1}{S^4 T^4} (144 - 384 S + 520 S^2 - 384 S^3 + 144 S^4 - 384 T + 648 S T - 368 S^2 T - 368 S^3 T + 648 S^4 T - \\
& 384 S^5 T + 520 T^2 - 368 S T^2 - 401 S^2 T^2 + 1037 S^3 T^2 - 401 S^4 T^2 - 368 S^5 T^2 + 520 S^6 T^2 - 384 T^3 - \\
& 368 S T^3 + 1037 S^2 T^3 - 736 S^3 T^3 - 736 S^4 T^3 + 1037 S^5 T^3 - 368 S^6 T^3 - 384 S^7 T^3 + 144 T^4 + 648 S T^4 - \\
& 401 S^2 T^4 - 736 S^3 T^4 + 1752 S^4 T^4 - 736 S^5 T^4 - 401 S^6 T^4 + 648 S^7 T^4 + 144 S^8 T^4 - 384 S T^5 - 368 S^2 T^5 + \\
& 1037 S^3 T^5 - 736 S^4 T^5 - 736 S^5 T^5 + 1037 S^6 T^5 - 368 S^7 T^5 - 384 S^8 T^5 + 520 S^2 T^6 - 368 S^3 T^6 - \\
& 401 S^4 T^6 + 1037 S^5 T^6 - 401 S^6 T^6 - 368 S^7 T^6 + 520 S^8 T^6 - 384 S^3 T^7 + 648 S^4 T^7 - 368 S^5 T^7 - \\
& 368 S^6 T^7 + 648 S^7 T^7 - 384 S^8 T^7 + 144 S^4 T^8 - 384 S^5 T^8 + 520 S^6 T^8 - 384 S^7 T^8 + 144 S^8 T^8), \\
& \text{Knot}[9, 24] \rightarrow -\frac{1}{S^4 T^4} 2 (S - 2 S^2 + S^3 + T - 7 S T + 5 S^2 T + 5 S^3 T - 7 S^4 T + S^5 T - 2 T^2 + 5 S T^2 + 26 S^2 T^2 - \\
& 46 S^3 T^2 + 26 S^4 T^2 + 5 S^5 T^2 - 2 S^6 T^2 + T^3 + 5 S T^3 - 46 S^2 T^3 + 26 S^3 T^3 + 26 S^4 T^3 - 46 S^5 T^3 + 5 S^6 T^3 + \\
& S^7 T^3 - 7 S T^4 + 26 S^2 T^4 + 26 S^3 T^4 - 54 S^4 T^4 + 26 S^5 T^4 + 26 S^6 T^4 - 7 S^7 T^4 + S T^5 + 5 S^2 T^5 - 46 S^3 T^5 + \\
& 26 S^4 T^5 + 26 S^5 T^5 - 46 S^6 T^5 + 5 S^7 T^5 + S^8 T^5 - 2 S^2 T^6 + 5 S^3 T^6 + 26 S^4 T^6 - 46 S^5 T^6 + 26 S^6 T^6 + \\
& 5 S^7 T^6 - 2 S^8 T^6 + S^3 T^7 - 7 S^4 T^7 + 5 S^5 T^7 + 5 S^6 T^7 - 7 S^7 T^7 + S^8 T^7 + S^5 T^8 - 2 S^6 T^8 + S^7 T^8), \\
& \text{Knot}[9, 25] \rightarrow \frac{1}{S^4 T^4} (30 - 120 S + 168 S^2 - 120 S^3 + 30 S^4 - 120 T + 362 S T - 195 S^2 T - 195 S^3 T + \\
& 362 S^4 T - 120 S^5 T + 168 T^2 - 195 S T^2 - 815 S^2 T^2 + 1379 S^3 T^2 - 815 S^4 T^2 - 195 S^5 T^2 + 168 S^6 T^2 - \\
& 120 T^3 - 195 S T^3 + 1379 S^2 T^3 - 782 S^3 T^3 - 782 S^4 T^3 + 1379 S^5 T^3 - 195 S^6 T^3 - 120 S^7 T^3 + 30 T^4 + \\
& 362 S T^4 - 815 S^2 T^4 - 782 S^3 T^4 + 1728 S^4 T^4 - 782 S^5 T^4 - 815 S^6 T^4 + 362 S^7 T^4 + 30 S^8 T^4 - 120 S T^5 - \\
& 195 S^2 T^5 + 1379 S^3 T^5 - 782 S^4 T^5 - 782 S^5 T^5 + 1379 S^6 T^5 - 195 S^7 T^5 - 120 S^8 T^5 + 168 S^2 T^6 - \\
& 195 S^3 T^6 - 815 S^4 T^6 + 1379 S^5 T^6 - 815 S^6 T^6 - 195 S^7 T^6 + 168 S^8 T^6 - 120 S^3 T^7 + 362 S^4 T^7 - \\
& 195 S^5 T^7 - 195 S^6 T^7 + 362 S^7 T^7 - 120 S^8 T^7 + 30 S^4 T^8 - 120 S^5 T^8 + 168 S^6 T^8 - 120 S^7 T^8 + 30 S^8 T^8), \\
& \text{Knot}[9, 26] \rightarrow \frac{1}{S^6 T^6} (1 - 5 S + 11 S^2 - 13 S^3 + 11 S^4 - 5 S^5 + S^6 - 5 T + 20 S T - 30 S^2 T + 10 S^3 T + \\
& 10 S^4 T - 30 S^5 T + 20 S^6 T - 5 S^7 T + 11 T^2 - 30 S T^2 + 6 S^2 T^2 + 84 S^3 T^2 - 94 S^4 T^2 + 84 S^5 T^2 + \\
& 6 S^6 T^2 - 30 S^7 T^2 + 11 S^8 T^2 - 13 T^3 + 10 S T^3 + 84 S^2 T^3 - 200 S^3 T^3 + 52 S^4 T^3 + 52 S^5 T^3 - \\
& 200 S^6 T^3 + 84 S^7 T^3 + 10 S^8 T^3 - 13 S^9 T^3 + 11 T^4 + 10 S T^4 - 94 S^2 T^4 + 52 S^3 T^4 + 334 S^4 T^4 - \\
& 382 S^5 T^4 + 334 S^6 T^4 + 52 S^7 T^4 - 94 S^8 T^4 + 10 S^9 T^4 + 11 S^{10} T^4 - 5 T^5 - 30 S T^5 + 84 S^2 T^5 + \\
& 52 S^3 T^5 - 382 S^4 T^5 + 118 S^5 T^5 + 118 S^6 T^5 - 382 S^7 T^5 + 52 S^8 T^5 + 84 S^9 T^5 - 30 S^{10} T^5 - 5 S^{11} T^5 + \\
& T^6 + 20 S T^6 + 6 S^2 T^6 - 200 S^3 T^6 + 334 S^4 T^6 + 118 S^5 T^6 - 204 S^6 T^6 + 118 S^7 T^6 + 334 S^8 T^6 - \\
& 200 S^9 T^6 + 6 S^{10} T^6 + 20 S^{11} T^6 + S^{12} T^6 - 5 S T^7 - 30 S^2 T^7 + 84 S^3 T^7 + 52 S^4 T^7 - 382 S^5 T^7 + \\
& 118 S^6 T^7 + 118 S^7 T^7 - 382 S^8 T^7 + 52 S^9 T^7 + 84 S^{10} T^7 - 30 S^{11} T^7 - 5 S^{12} T^7 + 11 S^2 T^8 + 10 S^3 T^8 - \\
& 94 S^4 T^8 + 52 S^5 T^8 + 334 S^6 T^8 - 382 S^7 T^8 + 334 S^8 T^8 + 52 S^9 T^8 - 94 S^{10} T^8 + 10 S^{11} T^8 + 11 S^{12} T^8 - \\
& 13 S^3 T^9 + 10 S^4 T^9 + 84 S^5 T^9 - 200 S^6 T^9 + 52 S^7 T^9 + 52 S^8 T^9 - 200 S^9 T^9 + 84 S^{10} T^9 + 10 S^{11} T^9 - \\
& 13 S^{12} T^9 + 11 S^4 T^{10} - 30 S^5 T^{10} + 6 S^6 T^{10} + 84 S^7 T^{10} - 94 S^8 T^{10} + 84 S^9 T^{10} + 6 S^{10} T^{10} - 30 S^{11} T^{10} + \\
& 11 S^{12} T^{10} - 5 S^5 T^{11} + 20 S^6 T^{11} - 30 S^7 T^{11} + 10 S^8 T^{11} + 10 S^9 T^{11} - 30 S^{10} T^{11} + 20 S^{11} T^{11} - \\
& 5 S^{12} T^{11} + S^6 T^{12} - 5 S^7 T^{12} + 11 S^8 T^{12} - 13 S^9 T^{12} + 11 S^{10} T^{12} - 5 S^{11} T^{12} + S^{12} T^{12}), \text{Knot}[9, 27] \rightarrow
\end{aligned}$$

$$-\frac{1}{S^4 T^4} \left(1 - S + S^2 - S^3 + S^4 - T - 8 S T + 4 S^2 T + 4 S^3 T - 8 S^4 T - S^5 T + T^2 + 4 S T^2 + 49 S^2 T^2 - 67 S^3 T^2 + \right. \\ \left. 49 S^4 T^2 + 4 S^5 T^2 + S^6 T^2 - T^3 + 4 S T^3 - 67 S^2 T^3 + 20 S^3 T^3 + 20 S^4 T^3 - 67 S^5 T^3 + 4 S^6 T^3 - S^7 T^3 + T^4 - \right. \\ \left. 8 S T^4 + 49 S^2 T^4 + 20 S^3 T^4 - 12 S^4 T^4 + 20 S^5 T^4 + 49 S^6 T^4 - 8 S^7 T^4 + S^8 T^4 - S T^5 + 4 S^2 T^5 - 67 S^3 T^5 + \right. \\ \left. 20 S^4 T^5 + 20 S^5 T^5 - 67 S^6 T^5 + 4 S^7 T^5 - S^8 T^5 + S^2 T^6 + 4 S^3 T^6 + 49 S^4 T^6 - 67 S^5 T^6 + 49 S^6 T^6 + 4 S^7 T^6 + \right. \\ \left. S^8 T^6 - S^3 T^7 - 8 S^4 T^7 + 4 S^5 T^7 + 4 S^6 T^7 - 8 S^7 T^7 - S^8 T^7 + S^4 T^8 - S^5 T^8 + S^6 T^8 - S^7 T^8 + S^8 T^8 \right),$$

$$\text{Knot}[9, 28] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 5 S + 12 S^2 - 15 S^3 + 12 S^4 - 5 S^5 + S^6 - 5 T + 20 S T - 35 S^2 T + 15 S^3 T + \right. \\ \left. 15 S^4 T - 35 S^5 T + 20 S^6 T - 5 S^7 T + 12 T^2 - 35 S T^2 + 31 S^2 T^2 + 60 S^3 T^2 - 89 S^4 T^2 + 60 S^5 T^2 + \right. \\ \left. 31 S^6 T^2 - 35 S^7 T^2 + 12 S^8 T^2 - 15 T^3 + 15 S T^3 + 60 S^2 T^3 - 208 S^3 T^3 + 80 S^4 T^3 + 80 S^5 T^3 - \right. \\ \left. 208 S^6 T^3 + 60 S^7 T^3 + 15 S^8 T^3 - 15 S^9 T^3 + 12 T^4 + 15 S T^4 - 89 S^2 T^4 + 80 S^3 T^4 + 353 S^4 T^4 - \right. \\ \left. 471 S^5 T^4 + 353 S^6 T^4 + 80 S^7 T^4 - 89 S^8 T^4 + 15 S^9 T^4 + 12 S^{10} T^4 - 5 T^5 - 35 S T^5 + 60 S^2 T^5 + \right. \\ \left. 80 S^3 T^5 - 471 S^4 T^5 + 172 S^5 T^5 + 172 S^6 T^5 - 471 S^7 T^5 + 80 S^8 T^5 + 60 S^9 T^5 - 35 S^{10} T^5 - 5 S^{11} T^5 + \right. \\ \left. T^6 + 20 S T^6 + 31 S^2 T^6 - 208 S^3 T^6 + 353 S^4 T^6 + 172 S^5 T^6 - 288 S^6 T^6 + 172 S^7 T^6 + 353 S^8 T^6 - \right. \\ \left. 208 S^9 T^6 + 31 S^{10} T^6 + 20 S^{11} T^6 + S^{12} T^6 - 5 S T^7 - 35 S^2 T^7 + 60 S^3 T^7 + 80 S^4 T^7 - 471 S^5 T^7 + \right. \\ \left. 172 S^6 T^7 + 172 S^7 T^7 - 471 S^8 T^7 + 80 S^9 T^7 + 60 S^{10} T^7 - 35 S^{11} T^7 - 5 S^{12} T^7 + 12 S^2 T^8 + 15 S^3 T^8 - \right. \\ \left. 89 S^4 T^8 + 80 S^5 T^8 + 353 S^6 T^8 - 471 S^7 T^8 + 353 S^8 T^8 + 80 S^9 T^8 - 89 S^{10} T^8 + 15 S^{11} T^8 + 12 S^{12} T^8 - \right. \\ \left. 15 S^3 T^9 + 15 S^4 T^9 + 60 S^5 T^9 - 208 S^6 T^9 + 80 S^7 T^9 + 80 S^8 T^9 - 208 S^9 T^9 + 60 S^{10} T^9 + 15 S^{11} T^9 - \right. \\ \left. 15 S^{12} T^9 + 12 S^4 T^{10} - 35 S^5 T^{10} + 31 S^6 T^{10} + 60 S^7 T^{10} - 89 S^8 T^{10} + 60 S^9 T^{10} + 31 S^{10} T^{10} - \right. \\ \left. 35 S^{11} T^{10} + 12 S^{12} T^{10} - 5 S^5 T^{11} + 20 S^6 T^{11} - 35 S^7 T^{11} + 15 S^8 T^{11} + 15 S^9 T^{11} - 35 S^{10} T^{11} + \right. \\ \left. 20 S^{11} T^{11} - 5 S^{12} T^{11} + S^6 T^{12} - 5 S^7 T^{12} + 12 S^8 T^{12} - 15 S^9 T^{12} + 12 S^{10} T^{12} - 5 S^{11} T^{12} + S^{12} T^{12} \right),$$

$$\text{Knot}[9, 29] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 5 S + 12 S^2 - 15 S^3 + 12 S^4 - 5 S^5 + S^6 - 5 T + 20 S T - 35 S^2 T + 15 S^3 T + \right. \\ \left. 15 S^4 T - 35 S^5 T + 20 S^6 T - 5 S^7 T + 12 T^2 - 35 S T^2 + 29 S^2 T^2 + 63 S^3 T^2 - 95 S^4 T^2 + 63 S^5 T^2 + \right. \\ \left. 29 S^6 T^2 - 35 S^7 T^2 + 12 S^8 T^2 - 15 T^3 + 15 S T^3 + 63 S^2 T^3 - 204 S^3 T^3 + 87 S^4 T^3 + 87 S^5 T^3 - \right. \\ \left. 204 S^6 T^3 + 63 S^7 T^3 + 15 S^8 T^3 - 15 S^9 T^3 + 12 T^4 + 15 S T^4 - 95 S^2 T^4 + 87 S^3 T^4 + 297 S^4 T^4 - \right. \\ \left. 451 S^5 T^4 + 297 S^6 T^4 + 87 S^7 T^4 - 95 S^8 T^4 + 15 S^9 T^4 + 12 S^{10} T^4 - 5 T^5 - 35 S T^5 + 63 S^2 T^5 + \right. \\ \left. 87 S^3 T^5 - 451 S^4 T^5 + 230 S^5 T^5 + 230 S^6 T^5 - 451 S^7 T^5 + 87 S^8 T^5 + 63 S^9 T^5 - 35 S^{10} T^5 - 5 S^{11} T^5 + \right. \\ \left. T^6 + 20 S T^6 + 29 S^2 T^6 - 204 S^3 T^6 + 297 S^4 T^6 + 230 S^5 T^6 - 516 S^6 T^6 + 230 S^7 T^6 + 297 S^8 T^6 - \right. \\ \left. 204 S^9 T^6 + 29 S^{10} T^6 + 20 S^{11} T^6 + S^{12} T^6 - 5 S T^7 - 35 S^2 T^7 + 63 S^3 T^7 + 87 S^4 T^7 - 451 S^5 T^7 + \right. \\ \left. 230 S^6 T^7 + 230 S^7 T^7 - 451 S^8 T^7 + 87 S^9 T^7 + 63 S^{10} T^7 - 35 S^{11} T^7 - 5 S^{12} T^7 + 12 S^2 T^8 + 15 S^3 T^8 - \right. \\ \left. 95 S^4 T^8 + 87 S^5 T^8 + 297 S^6 T^8 - 451 S^7 T^8 + 297 S^8 T^8 + 87 S^9 T^8 - 95 S^{10} T^8 + 15 S^{11} T^8 + 12 S^{12} T^8 - \right. \\ \left. 15 S^3 T^9 + 15 S^4 T^9 + 63 S^5 T^9 - 204 S^6 T^9 + 87 S^7 T^9 + 87 S^8 T^9 - 204 S^9 T^9 + 63 S^{10} T^9 + 15 S^{11} T^9 - \right. \\ \left. 15 S^{12} T^9 + 12 S^4 T^{10} - 35 S^5 T^{10} + 29 S^6 T^{10} + 63 S^7 T^{10} - 95 S^8 T^{10} + 63 S^9 T^{10} + 29 S^{10} T^{10} - \right. \\ \left. 35 S^{11} T^{10} + 12 S^{12} T^{10} - 5 S^5 T^{11} + 20 S^6 T^{11} - 35 S^7 T^{11} + 15 S^8 T^{11} + 15 S^9 T^{11} - 35 S^{10} T^{11} + \right. \\ \left. 20 S^{11} T^{11} - 5 S^{12} T^{11} + S^6 T^{12} - 5 S^7 T^{12} + 12 S^8 T^{12} - 15 S^9 T^{12} + 12 S^{10} T^{12} - 5 S^{11} T^{12} + S^{12} T^{12} \right),$$

$$\text{Knot}[9, 30] \rightarrow -\frac{1}{S^4 T^4} \left(S + S^3 + T - 6 S T - 2 S^2 T - 2 S^3 T - 6 S^4 T + S^5 T - 2 S T^2 + 29 S^2 T^2 - \right. \\ \left. 7 S^3 T^2 + 29 S^4 T^2 - 2 S^5 T^2 + T^3 - 2 S T^3 - 7 S^2 T^3 - 38 S^3 T^3 - 38 S^4 T^3 - 7 S^5 T^3 - 2 S^6 T^3 + \right. \\ \left. S^7 T^3 - 6 S T^4 + 29 S^2 T^4 - 38 S^3 T^4 + 144 S^4 T^4 - 38 S^5 T^4 + 29 S^6 T^4 - 6 S^7 T^4 + S T^5 - 2 S^2 T^5 - \right. \\ \left. 7 S^3 T^5 - 38 S^4 T^5 - 38 S^5 T^5 - 7 S^6 T^5 - 2 S^7 T^5 + S^8 T^5 - 2 S^3 T^6 + 29 S^4 T^6 - 7 S^5 T^6 + \right. \\ \left. 29 S^6 T^6 - 2 S^7 T^6 + S^3 T^7 - 6 S^4 T^7 - 2 S^5 T^7 - 2 S^6 T^7 - 6 S^7 T^7 + S^8 T^7 + S^5 T^8 + S^7 T^8 \right),$$

$$\text{Knot}[9, 31] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 5 S + 13 S^2 - 17 S^3 + 13 S^4 - 5 S^5 + S^6 - 5 T + 20 S T - 40 S^2 T + 20 S^3 T + \right. \\ \left. 20 S^4 T - 40 S^5 T + 20 S^6 T - 5 S^7 T + 13 T^2 - 40 S T^2 + 56 S^2 T^2 + 44 S^3 T^2 - 96 S^4 T^2 + 44 S^5 T^2 + \right. \\ \left. 56 S^6 T^2 - 40 S^7 T^2 + 13 S^8 T^2 - 17 T^3 + 20 S T^3 + 44 S^2 T^3 - 260 S^3 T^3 + 136 S^4 T^3 + 136 S^5 T^3 - \right.$$

$$\begin{aligned}
& 260 S^6 T^3 + 44 S^7 T^3 + 20 S^8 T^3 - 17 S^9 T^3 + 13 T^4 + 20 S T^4 - 96 S^2 T^4 + 136 S^3 T^4 + 491 S^4 T^4 - \\
& 803 S^5 T^4 + 491 S^6 T^4 + 136 S^7 T^4 - 96 S^8 T^4 + 20 S^9 T^4 + 13 S^{10} T^4 - 5 T^5 - 40 S T^5 + 44 S^2 T^5 + \\
& 136 S^3 T^5 - 803 S^4 T^5 + 420 S^5 T^5 + 420 S^6 T^5 - 803 S^7 T^5 + 136 S^8 T^5 + 44 S^9 T^5 - 40 S^{10} T^5 - 5 S^{11} T^5 + \\
& T^6 + 20 S T^6 + 56 S^2 T^6 - 260 S^3 T^6 + 491 S^4 T^6 + 420 S^5 T^6 - 888 S^6 T^6 + 420 S^7 T^6 + 491 S^8 T^6 - \\
& 260 S^9 T^6 + 56 S^{10} T^6 + 20 S^{11} T^6 + S^{12} T^6 - 5 S T^7 - 40 S^2 T^7 + 44 S^3 T^7 + 136 S^4 T^7 - 803 S^5 T^7 + \\
& 420 S^6 T^7 + 420 S^7 T^7 - 803 S^8 T^7 + 136 S^9 T^7 + 44 S^{10} T^7 - 40 S^{11} T^7 - 5 S^{12} T^7 + 13 S^2 T^8 + 20 S^3 T^8 - \\
& 96 S^4 T^8 + 136 S^5 T^8 + 491 S^6 T^8 - 803 S^7 T^8 + 491 S^8 T^8 + 136 S^9 T^8 - 96 S^{10} T^8 + 20 S^{11} T^8 + \\
& 13 S^{12} T^8 - 17 S^3 T^9 + 20 S^4 T^9 + 44 S^5 T^9 - 260 S^6 T^9 + 136 S^7 T^9 + 136 S^8 T^9 - 260 S^9 T^9 + 44 S^{10} T^9 + \\
& 20 S^{11} T^9 - 17 S^{12} T^9 + 13 S^4 T^{10} - 40 S^5 T^{10} + 56 S^6 T^{10} + 44 S^7 T^{10} - 96 S^8 T^{10} + 44 S^9 T^{10} + 56 S^{10} T^{10} - \\
& 40 S^{11} T^{10} + 13 S^{12} T^{10} - 5 S^5 T^{11} + 20 S^6 T^{11} - 40 S^7 T^{11} + 20 S^8 T^{11} + 20 S^9 T^{11} - 40 S^{10} T^{11} + \\
& 20 S^{11} T^{11} - 5 S^{12} T^{11} + S^6 T^{12} - 5 S^7 T^{12} + 13 S^8 T^{12} - 17 S^9 T^{12} + 13 S^{10} T^{12} - 5 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[9, 32] & \rightarrow \frac{1}{S^6 T^6} \left(1 - 6 S + 14 S^2 - 17 S^3 + 14 S^4 - 6 S^5 + S^6 - 6 T + 30 S T - 48 S^2 T + 18 S^3 T + \right. \\
& 18 S^4 T - 48 S^5 T + 30 S^6 T - 6 S^7 T + 14 T^2 - 48 S T^2 - 7 S^2 T^2 + 186 S^3 T^2 - 227 S^4 T^2 + \\
& 186 S^5 T^2 - 7 S^6 T^2 - 48 S^7 T^2 + 14 S^8 T^2 - 17 T^3 + 18 S T^3 + 186 S^2 T^3 - 412 S^3 T^3 + 131 S^4 T^3 + \\
& 131 S^5 T^3 - 412 S^6 T^3 + 186 S^7 T^3 + 18 S^8 T^3 - 17 S^9 T^3 + 14 T^4 + 18 S T^4 - 227 S^2 T^4 + \\
& 131 S^3 T^4 + 621 S^4 T^4 - 751 S^5 T^4 + 621 S^6 T^4 + 131 S^7 T^4 - 227 S^8 T^4 + 18 S^9 T^4 + 14 S^{10} T^4 - \\
& 6 T^5 - 48 S T^5 + 186 S^2 T^5 + 131 S^3 T^5 - 751 S^4 T^5 + 234 S^5 T^5 + 234 S^6 T^5 - 751 S^7 T^5 + \\
& 131 S^8 T^5 + 186 S^9 T^5 - 48 S^{10} T^5 - 6 S^{11} T^5 + T^6 + 30 S T^6 - 7 S^2 T^6 - 412 S^3 T^6 + 621 S^4 T^6 + \\
& 234 S^5 T^6 - 372 S^6 T^6 + 234 S^7 T^6 + 621 S^8 T^6 - 412 S^9 T^6 - 7 S^{10} T^6 + 30 S^{11} T^6 + S^{12} T^6 - \\
& 6 S T^7 - 48 S^2 T^7 + 186 S^3 T^7 + 131 S^4 T^7 - 751 S^5 T^7 + 234 S^6 T^7 + 234 S^7 T^7 - 751 S^8 T^7 + \\
& 131 S^9 T^7 + 186 S^{10} T^7 - 48 S^{11} T^7 - 6 S^{12} T^7 + 14 S^2 T^8 + 18 S^3 T^8 - 227 S^4 T^8 + 131 S^5 T^8 + \\
& 621 S^6 T^8 - 751 S^7 T^8 + 621 S^8 T^8 + 131 S^9 T^8 - 227 S^{10} T^8 + 18 S^{11} T^8 + 14 S^{12} T^8 - 17 S^3 T^9 + \\
& 18 S^4 T^9 + 186 S^5 T^9 - 412 S^6 T^9 + 131 S^7 T^9 + 131 S^8 T^9 - 412 S^9 T^9 + 186 S^{10} T^9 + 18 S^{11} T^9 - \\
& 17 S^{12} T^9 + 14 S^4 T^{10} - 48 S^5 T^{10} - 7 S^6 T^{10} + 186 S^7 T^{10} - 227 S^8 T^{10} + 186 S^9 T^{10} - 7 S^{10} T^{10} - \\
& 48 S^{11} T^{10} + 14 S^{12} T^{10} - 6 S^5 T^{11} + 30 S^6 T^{11} - 48 S^7 T^{11} + 18 S^8 T^{11} + 18 S^9 T^{11} - 48 S^{10} T^{11} + \\
& 30 S^{11} T^{11} - 6 S^{12} T^{11} + S^6 T^{12} - 6 S^7 T^{12} + 14 S^8 T^{12} - 17 S^9 T^{12} + 14 S^{10} T^{12} - 6 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[9, 33] & \rightarrow \frac{1}{S^4 T^4} \left(1 - 4 S + 5 S^2 - 4 S^3 + S^4 - 4 T + 16 S T - 6 S^2 T - 6 S^3 T + 16 S^4 T - 4 S^5 T + \right. \\
& 5 T^2 - 6 S T^2 - 65 S^2 T^2 + 81 S^3 T^2 - 65 S^4 T^2 - 6 S^5 T^2 + 5 S^6 T^2 - 4 T^3 - 6 S T^3 + 81 S^2 T^3 - \\
& 16 S^3 T^3 - 16 S^4 T^3 + 81 S^5 T^3 - 6 S^6 T^3 - 4 S^7 T^3 + T^4 + 16 S T^4 - 65 S^2 T^4 - 16 S^3 T^4 - 12 S^4 T^4 - \\
& 16 S^5 T^4 - 65 S^6 T^4 + 16 S^7 T^4 + S^8 T^4 - 4 S T^5 - 6 S^2 T^5 + 81 S^3 T^5 - 16 S^4 T^5 - 16 S^5 T^5 + 81 S^6 T^5 - \\
& 6 S^7 T^5 - 4 S^8 T^5 + 5 S^2 T^6 - 6 S^3 T^6 - 65 S^4 T^6 + 81 S^5 T^6 - 65 S^6 T^6 - 6 S^7 T^6 + 5 S^8 T^6 - 4 S^3 T^7 + \\
& 16 S^4 T^7 - 6 S^5 T^7 - 6 S^6 T^7 + 16 S^7 T^7 - 4 S^8 T^7 + S^4 T^8 - 4 S^5 T^8 + 5 S^6 T^8 - 4 S^7 T^8 + S^8 T^8 \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[9, 34] & \rightarrow \frac{1}{S^4 T^4} \left(1 - S - 3 S^2 - S^3 + S^4 - T - 10 S T + 23 S^2 T + 23 S^3 T - 10 S^4 T - S^5 T - 3 T^2 + \right. \\
& 23 S T^2 + 18 S^2 T^2 - 158 S^3 T^2 + 18 S^4 T^2 + 23 S^5 T^2 - 3 S^6 T^2 - T^3 + 23 S T^3 - 158 S^2 T^3 + 216 S^3 T^3 + \\
& 216 S^4 T^3 - 158 S^5 T^3 + 23 S^6 T^3 - S^7 T^3 + T^4 - 10 S T^4 + 18 S^2 T^4 + 216 S^3 T^4 - 648 S^4 T^4 + 216 S^5 T^4 + \\
& 18 S^6 T^4 - 10 S^7 T^4 + S^8 T^4 - S T^5 + 23 S^2 T^5 - 158 S^3 T^5 + 216 S^4 T^5 + 216 S^5 T^5 - 158 S^6 T^5 + \\
& 23 S^7 T^5 - S^8 T^5 - 3 S^2 T^6 + 23 S^3 T^6 + 18 S^4 T^6 - 158 S^5 T^6 + 18 S^6 T^6 + 23 S^7 T^6 - 3 S^8 T^6 - \\
& S^3 T^7 - 10 S^4 T^7 + 23 S^5 T^7 + 23 S^6 T^7 - 10 S^7 T^7 - S^8 T^7 + S^4 T^8 - S^5 T^8 - 3 S^6 T^8 - S^7 T^8 + S^8 T^8 \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[9, 35] & \rightarrow -\frac{1}{S^2 T^2} 18 \left(28 - 51 S + 28 S^2 - 51 T + 42 S T + 42 S^2 T - 51 S^3 T + 28 T^2 + 42 S T^2 - 114 S^2 T^2 + \right. \\
& 42 S^3 T^2 + 28 S^4 T^2 - 51 S T^3 + 42 S^2 T^3 + 42 S^3 T^3 - 51 S^4 T^3 + 28 S^2 T^4 - 51 S^3 T^4 + 28 S^4 T^4 \Big),
\end{aligned}$$

$$\text{Knot}[9, 36] \rightarrow -\frac{1}{S^6 T^6} \left(2 - 10 S + 16 S^2 - 18 S^3 + 16 S^4 - 10 S^5 + 2 S^6 - 10 T + 40 S T - 30 S^2 T + \right. \\
10 S^3 T + 10 S^4 T - 30 S^5 T + 40 S^6 T - 10 S^7 T + 16 T^2 - 30 S T^2 - 102 S^2 T^2 + 171 S^3 T^2 - 188 S^4 T^2 + \\
171 S^5 T^2 - 102 S^6 T^2 - 30 S^7 T^2 + 16 S^8 T^2 - 18 T^3 + 10 S T^3 + 171 S^2 T^3 - 110 S^3 T^3 + 32 S^4 T^3 + \\
32 S^5 T^3 - 110 S^6 T^3 + 171 S^7 T^3 + 10 S^8 T^3 - 18 S^9 T^3 + 16 T^4 + 10 S T^4 - 188 S^2 T^4 + 32 S^3 T^4 - \\
5 S^4 T^4 + 7 S^5 T^4 - 5 S^6 T^4 + 32 S^7 T^4 - 188 S^8 T^4 + 10 S^9 T^4 + 16 S^{10} T^4 - 10 T^5 - 30 S T^5 + 171 S^2 T^5 + \\
32 S^3 T^5 + 7 S^4 T^5 - 6 S^5 T^5 - 6 S^6 T^5 + 7 S^7 T^5 + 32 S^8 T^5 + 171 S^9 T^5 - 30 S^{10} T^5 - 10 S^{11} T^5 + \\
2 T^6 + 40 S T^6 - 102 S^2 T^6 - 110 S^3 T^6 - 5 S^4 T^6 - 6 S^5 T^6 + 12 S^6 T^6 - 6 S^7 T^6 - 5 S^8 T^6 - 110 S^9 T^6 - \\
102 S^{10} T^6 + 40 S^{11} T^6 + 2 S^{12} T^6 - 10 S T^7 - 30 S^2 T^7 + 171 S^3 T^7 + 32 S^4 T^7 + 7 S^5 T^7 - 6 S^6 T^7 - \\
6 S^7 T^7 + 7 S^8 T^7 + 32 S^9 T^7 + 171 S^{10} T^7 - 30 S^{11} T^7 - 10 S^{12} T^7 + 16 S^2 T^8 + 10 S^3 T^8 - 188 S^4 T^8 + \\
32 S^5 T^8 - 5 S^6 T^8 + 7 S^7 T^8 - 5 S^8 T^8 + 32 S^9 T^8 - 188 S^{10} T^8 + 10 S^{11} T^8 + 16 S^{12} T^8 - 18 S^3 T^9 + \\
10 S^4 T^9 + 171 S^5 T^9 - 110 S^6 T^9 + 32 S^7 T^9 + 32 S^8 T^9 - 110 S^9 T^9 + 171 S^{10} T^9 + 10 S^{11} T^9 - 18 S^{12} T^9 + \\
16 S^4 T^{10} - 30 S^5 T^{10} - 102 S^6 T^{10} + 171 S^7 T^{10} - 188 S^8 T^{10} + 171 S^9 T^{10} - 102 S^{10} T^{10} - 30 S^{11} T^{10} + \\
16 S^{12} T^{10} - 10 S^5 T^{11} + 40 S^6 T^{11} - 30 S^7 T^{11} + 10 S^8 T^{11} + 10 S^9 T^{11} - 30 S^{10} T^{11} + 40 S^{11} T^{11} - \\
\left. 10 S^{12} T^{11} + 2 S^6 T^{12} - 10 S^7 T^{12} + 16 S^8 T^{12} - 18 S^9 T^{12} + 16 S^{10} T^{12} - 10 S^{11} T^{12} + 2 S^{12} T^{12} \right),$$

$$\text{Knot}[9, 37] \rightarrow -\frac{1}{S^4 T^4} \left(1 - 5 S + 9 S^2 - 5 S^3 + S^4 - 5 T + 20 S T - 20 S^2 T - 20 S^3 T + 20 S^4 T - 5 S^5 T + \right. \\
9 T^2 - 20 S T^2 - 33 S^2 T^2 + 127 S^3 T^2 - 33 S^4 T^2 - 20 S^5 T^2 + 9 S^6 T^2 - 5 T^3 - 20 S T^3 + 127 S^2 T^3 - \\
142 S^3 T^3 - 142 S^4 T^3 + 127 S^5 T^3 - 20 S^6 T^3 - 5 S^7 T^3 + T^4 + 20 S T^4 - 33 S^2 T^4 - 142 S^3 T^4 + 408 S^4 T^4 - \\
142 S^5 T^4 - 33 S^6 T^4 + 20 S^7 T^4 + S^8 T^4 - 5 S T^5 - 20 S^2 T^5 + 127 S^3 T^5 - 142 S^4 T^5 - 142 S^5 T^5 + \\
127 S^6 T^5 - 20 S^7 T^5 - 5 S^8 T^5 + 9 S^2 T^6 - 20 S^3 T^6 - 33 S^4 T^6 + 127 S^5 T^6 - 33 S^6 T^6 - 20 S^7 T^6 + 9 S^8 T^6 - \\
\left. 5 S^3 T^7 + 20 S^4 T^7 - 20 S^5 T^7 - 20 S^6 T^7 + 20 S^7 T^7 - 5 S^8 T^7 + S^4 T^8 - 5 S^5 T^8 + 9 S^6 T^8 - 5 S^7 T^8 + S^8 T^8 \right),$$

$$\text{Knot}[9, 38] \rightarrow -\frac{1}{S^4 T^4} \left(270 - 735 S + 992 S^2 - 735 S^3 + 270 S^4 - 735 T + 1280 S T - 709 S^2 T - \right. \\
709 S^3 T + 1280 S^4 T - 735 S^5 T + 992 T^2 - 709 S T^2 - 966 S^2 T^2 + 2218 S^3 T^2 - 966 S^4 T^2 - \\
709 S^5 T^2 + 992 S^6 T^2 - 735 T^3 - 709 S T^3 + 2218 S^2 T^3 - 1484 S^3 T^3 - 1484 S^4 T^3 + 2218 S^5 T^3 - \\
709 S^6 T^3 - 735 S^7 T^3 + 270 T^4 + 1280 S T^4 - 966 S^2 T^4 - 1484 S^3 T^4 + 3468 S^4 T^4 - 1484 S^5 T^4 - \\
966 S^6 T^4 + 1280 S^7 T^4 + 270 S^8 T^4 - 735 S T^5 - 709 S^2 T^5 + 2218 S^3 T^5 - 1484 S^4 T^5 - \\
1484 S^5 T^5 + 2218 S^6 T^5 - 709 S^7 T^5 - 735 S^8 T^5 + 992 S^2 T^6 - 709 S^3 T^6 - 966 S^4 T^6 + 2218 S^5 T^6 - \\
966 S^6 T^6 - 709 S^7 T^6 + 992 S^8 T^6 - 735 S^3 T^7 + 1280 S^4 T^7 - 709 S^5 T^7 - 709 S^6 T^7 + 1280 S^7 T^7 - \\
735 S^8 T^7 + 270 S^4 T^8 - 735 S^5 T^8 + 992 S^6 T^8 - 735 S^7 T^8 + 270 S^8 T^8 \Big), \text{Knot}[9, 39] \rightarrow \\
-\frac{1}{S^4 T^4} \left(30 - 139 S + 206 S^2 - 139 S^3 + 30 S^4 - 139 T + 506 S T - 313 S^2 T - 313 S^3 T + 506 S^4 T - \right. \\
139 S^5 T + 206 T^2 - 313 S T^2 - 1316 S^2 T^2 + 2456 S^3 T^2 - 1316 S^4 T^2 - 313 S^5 T^2 + 206 S^6 T^2 - 139 T^3 - \\
313 S T^3 + 2456 S^2 T^3 - 1618 S^3 T^3 - 1618 S^4 T^3 + 2456 S^5 T^3 - 313 S^6 T^3 - 139 S^7 T^3 + 30 T^4 + 506 S T^4 - \\
1316 S^2 T^4 - 1618 S^3 T^4 + 3840 S^4 T^4 - 1618 S^5 T^4 - 1316 S^6 T^4 + 506 S^7 T^4 + 30 S^8 T^4 - 139 S T^5 - \\
313 S^2 T^5 + 2456 S^3 T^5 - 1618 S^4 T^5 - 1618 S^5 T^5 + 2456 S^6 T^5 - 313 S^7 T^5 - 139 S^8 T^5 + 206 S^2 T^6 - \\
313 S^3 T^6 - 1316 S^4 T^6 + 2456 S^5 T^6 - 1316 S^6 T^6 - 313 S^7 T^6 + 206 S^8 T^6 - 139 S^3 T^7 + 506 S^4 T^7 - \\
313 S^5 T^7 - 313 S^6 T^7 + 506 S^7 T^7 - 139 S^8 T^7 + 30 S^4 T^8 - 139 S^5 T^8 + 206 S^6 T^8 - 139 S^7 T^8 + 30 S^8 T^8 \Big),$$

$$\text{Knot}[9, 40] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 3 S + S^2 \right) \left(1 - 3 T + T^2 \right) \left(1 - 3 S T + S^2 T^2 \right) \\
\left(1 - 4 S + 5 S^2 - 4 S^3 + S^4 - 4 T + 12 S T - 4 S^2 T - 4 S^3 T + 12 S^4 T - 4 S^5 T + 5 T^2 - 4 S T^2 - \right. \\
31 S^2 T^2 + 37 S^3 T^2 - 31 S^4 T^2 - 4 S^5 T^2 + 5 S^6 T^2 - 4 T^3 - 4 S T^3 + 37 S^2 T^3 - 10 S^3 T^3 - 10 S^4 T^3 + \\
37 S^5 T^3 - 4 S^6 T^3 - 4 S^7 T^3 + T^4 + 12 S T^4 - 31 S^2 T^4 - 10 S^3 T^4 + 12 S^4 T^4 - 10 S^5 T^4 - 31 S^6 T^4 + \\
\left. 12 S^7 T^4 + S^8 T^4 - 4 S T^5 - 4 S^2 T^5 + 37 S^3 T^5 - 10 S^4 T^5 - 10 S^5 T^5 + 37 S^6 T^5 - 4 S^7 T^5 - \right.$$

$$\begin{aligned}
& 4 S^8 T^5 + 5 S^2 T^6 - 4 S^3 T^6 - 31 S^4 T^6 + 37 S^5 T^6 - 31 S^6 T^6 - 4 S^7 T^6 + 5 S^8 T^6 - 4 S^3 T^7 + \\
& 12 S^4 T^7 - 4 S^5 T^7 - 4 S^6 T^7 + 12 S^7 T^7 - 4 S^8 T^7 + S^4 T^8 - 4 S^5 T^8 + 5 S^6 T^8 - 4 S^7 T^8 + S^8 T^8), \\
\text{Knot}[9, 41] \rightarrow & -\frac{1}{S^4 T^4} (3 - 15 S + 27 S^2 - 15 S^3 + 3 S^4 - 15 T + 58 S T - 56 S^2 T - 56 S^3 T + \\
& 58 S^4 T - 15 S^5 T + 27 T^2 - 56 S T^2 - 81 S^2 T^2 + 333 S^3 T^2 - 81 S^4 T^2 - 56 S^5 T^2 + 27 S^6 T^2 - \\
& 15 T^3 - 56 S T^3 + 333 S^2 T^3 - 396 S^3 T^3 - 396 S^4 T^3 + 333 S^5 T^3 - 56 S^6 T^3 - 15 S^7 T^3 + 3 T^4 + \\
& 58 S T^4 - 81 S^2 T^4 - 396 S^3 T^4 + 1188 S^4 T^4 - 396 S^5 T^4 - 81 S^6 T^4 + 58 S^7 T^4 + 3 S^8 T^4 - \\
& 15 S T^5 - 56 S^2 T^5 + 333 S^3 T^5 - 396 S^4 T^5 - 396 S^5 T^5 + 333 S^6 T^5 - 56 S^7 T^5 - 15 S^8 T^5 + \\
& 27 S^2 T^6 - 56 S^3 T^6 - 81 S^4 T^6 + 333 S^5 T^6 - 81 S^6 T^6 - 56 S^7 T^6 + 27 S^8 T^6 - 15 S^3 T^7 + 58 S^4 T^7 - \\
& 56 S^5 T^7 - 56 S^6 T^7 + 58 S^7 T^7 - 15 S^8 T^7 + 3 S^4 T^8 - 15 S^5 T^8 + 27 S^6 T^8 - 15 S^7 T^8 + 3 S^8 T^8), \\
\text{Knot}[9, 42] \rightarrow & -\frac{1}{S^4 T^4} (1 - 2 S + S^2 - 2 S^3 + S^4 - 2 T + 2 S T + 2 S^2 T + 2 S^3 T + 2 S^4 T - 2 S^5 T + \\
& T^2 + 2 S T^2 - 6 S^2 T^2 + 2 S^3 T^2 - 6 S^4 T^2 + 2 S^5 T^2 + S^6 T^2 - 2 T^3 + 2 S T^3 + 2 S^2 T^3 - \\
& 4 S^3 T^3 - 4 S^4 T^3 + 2 S^5 T^3 + 2 S^6 T^3 - 2 S^7 T^3 + T^4 + 2 S T^4 - 6 S^2 T^4 - 4 S^3 T^4 + 24 S^4 T^4 - \\
& 4 S^5 T^4 - 6 S^6 T^4 + 2 S^7 T^4 + S^8 T^4 - 2 S T^5 + 2 S^2 T^5 + 2 S^3 T^5 - 4 S^4 T^5 - 4 S^5 T^5 + 2 S^6 T^5 + \\
& 2 S^7 T^5 - 2 S^8 T^5 + S^2 T^6 + 2 S^3 T^6 - 6 S^4 T^6 + 2 S^5 T^6 - 6 S^6 T^6 + 2 S^7 T^6 + S^8 T^6 - 2 S^3 T^7 + \\
& 2 S^4 T^7 + 2 S^5 T^7 + 2 S^6 T^7 + 2 S^7 T^7 - 2 S^8 T^7 + S^4 T^8 - 2 S^5 T^8 + S^6 T^8 - 2 S^7 T^8 + S^8 T^8), \\
\text{Knot}[9, 43] \rightarrow & -\frac{1}{S^6 T^6} (2 - 6 S + 4 S^2 - 2 S^3 + 4 S^4 - 6 S^5 + 2 S^6 - 6 T + 12 S T + 6 S^2 T - 6 S^3 T - \\
& 6 S^4 T + 6 S^5 T + 12 S^6 T - 6 S^7 T + 4 T^2 + 6 S T^2 - 41 S^2 T^2 + 19 S^3 T^2 - S^4 T^2 + 19 S^5 T^2 - 41 S^6 T^2 + \\
& 6 S^7 T^2 + 4 S^8 T^2 - 2 T^3 - 6 S T^3 + 19 S^2 T^3 + 12 S^3 T^3 - 11 S^4 T^3 - 11 S^5 T^3 + 12 S^6 T^3 + 19 S^7 T^3 - \\
& 6 S^8 T^3 - 2 S^9 T^3 + 4 T^4 - 6 S T^4 - S^2 T^4 - 11 S^3 T^4 + 8 S^4 T^4 - 4 S^5 T^4 + 8 S^6 T^4 - 11 S^7 T^4 - S^8 T^4 - \\
& 6 S^9 T^4 + 4 S^{10} T^4 - 6 T^5 + 6 S T^5 + 19 S^2 T^5 - 11 S^3 T^5 - 4 S^4 T^5 + 4 S^5 T^5 + 4 S^6 T^5 - 4 S^7 T^5 - \\
& 11 S^8 T^5 + 19 S^9 T^5 + 6 S^{10} T^5 - 6 S^{11} T^5 + 2 T^6 + 12 S T^6 - 41 S^2 T^6 + 12 S^3 T^6 + 8 S^4 T^6 + 4 S^5 T^6 - \\
& 12 S^6 T^6 + 4 S^7 T^6 + 8 S^8 T^6 + 12 S^9 T^6 - 41 S^{10} T^6 + 12 S^{11} T^6 + 2 S^{12} T^6 - 6 S T^7 + 6 S^2 T^7 + \\
& 19 S^3 T^7 - 11 S^4 T^7 - 4 S^5 T^7 + 4 S^6 T^7 + 4 S^7 T^7 - 4 S^8 T^7 - 11 S^9 T^7 + 19 S^{10} T^7 + 6 S^{11} T^7 - \\
& 6 S^{12} T^7 + 4 S^2 T^8 - 6 S^3 T^8 - S^4 T^8 - 11 S^5 T^8 + 8 S^6 T^8 - 4 S^7 T^8 + 8 S^8 T^8 - 11 S^9 T^8 - S^{10} T^8 - \\
& 6 S^{11} T^8 + 4 S^{12} T^8 - 2 S^3 T^9 - 6 S^4 T^9 + 19 S^5 T^9 + 12 S^6 T^9 - 11 S^7 T^9 - 11 S^8 T^9 + 12 S^9 T^9 + \\
& 19 S^{10} T^9 - 6 S^{11} T^9 - 2 S^{12} T^9 + 4 S^4 T^{10} + 6 S^5 T^{10} - 41 S^6 T^{10} + 19 S^7 T^{10} - S^8 T^{10} + 19 S^9 T^{10} - \\
& 41 S^{10} T^{10} + 6 S^{11} T^{10} + 4 S^{12} T^{10} - 6 S^5 T^{11} + 12 S^6 T^{11} + 6 S^7 T^{11} - 6 S^8 T^{11} - 6 S^9 T^{11} + 6 S^{10} T^{11} + \\
& 12 S^{11} T^{11} - 6 S^{12} T^{11} + 2 S^6 T^{12} - 6 S^7 T^{12} + 4 S^8 T^{12} - 2 S^9 T^{12} + 4 S^{10} T^{12} - 6 S^{11} T^{12} + 2 S^{12} T^{12}), \\
\text{Knot}[9, 44] \rightarrow & \frac{1}{S^3 T^3} (S + S^2 + T - 9 S T + 3 S^2 T - 9 S^3 T + S^4 T + T^2 + 3 S T^2 + 12 S^2 T^2 + 12 S^3 T^2 + \\
& 3 S^4 T^2 + S^5 T^2 - 9 S T^3 + 12 S^2 T^3 - 48 S^3 T^3 + 12 S^4 T^3 - 9 S^5 T^3 + S T^4 + 3 S^2 T^4 + 12 S^3 T^4 + \\
& 12 S^4 T^4 + 3 S^5 T^4 + S^6 T^4 + S^2 T^5 - 9 S^3 T^5 + 3 S^4 T^5 - 9 S^5 T^5 + S^6 T^5 + S^4 T^6 + S^5 T^6), \\
\text{Knot}[9, 45] \rightarrow & \frac{1}{S^4 T^4} (1 - 6 S + 9 S^2 - 6 S^3 + S^4 - 6 T + 32 S T - 18 S^2 T - 18 S^3 T + 32 S^4 T - \\
& 6 S^5 T + 9 T^2 - 18 S T^2 - 154 S^2 T^2 + 250 S^3 T^2 - 154 S^4 T^2 - 18 S^5 T^2 + 9 S^6 T^2 - 6 T^3 - \\
& 18 S T^3 + 250 S^2 T^3 - 142 S^3 T^3 - 142 S^4 T^3 + 250 S^5 T^3 - 18 S^6 T^3 - 6 S^7 T^3 + T^4 + 32 S T^4 - \\
& 154 S^2 T^4 - 142 S^3 T^4 + 312 S^4 T^4 - 142 S^5 T^4 - 154 S^6 T^4 + 32 S^7 T^4 + S^8 T^4 - 6 S T^5 - \\
& 18 S^2 T^5 + 250 S^3 T^5 - 142 S^4 T^5 - 142 S^5 T^5 + 250 S^6 T^5 - 18 S^7 T^5 - 6 S^8 T^5 + 9 S^2 T^6 - \\
& 18 S^3 T^6 - 154 S^4 T^6 + 250 S^5 T^6 - 154 S^6 T^6 - 18 S^7 T^6 + 9 S^8 T^6 - 6 S^3 T^7 + 32 S^4 T^7 - \\
& 18 S^5 T^7 - 18 S^6 T^7 + 32 S^7 T^7 - 6 S^8 T^7 + S^4 T^8 - 6 S^5 T^8 + 9 S^6 T^8 - 6 S^7 T^8 + S^8 T^8), \\
\text{Knot}[9, 46] \rightarrow & \frac{1}{S^2 T^2} 3 (1 - 3 S + S^2 - 3 T + 6 S T + 6 S^2 T - 3 S^3 T + T^2 + 6 S T^2 - 24 S^2 T^2 +
\end{aligned}$$

$$\begin{aligned}
& 6 S^3 T^2 + S^4 T^2 - 3 S T^3 + 6 S^2 T^3 + 6 S^3 T^3 - 3 S^4 T^3 + S^2 T^4 - 3 S^3 T^4 + S^4 T^4), \\
\text{Knot}[9, 47] & \rightarrow \frac{1}{S^6 T^6} (1 - 4 S + 6 S^2 - 5 S^3 + 6 S^4 - 4 S^5 + S^6 - 4 T + 12 S T - 8 S^2 T - 4 S^3 T - \\
& 4 S^4 T - 8 S^5 T + 12 S^6 T - 4 S^7 T + 6 T^2 - 8 S T^2 - 22 S^2 T^2 + 42 S^3 T^2 - 8 S^4 T^2 + 42 S^5 T^2 - \\
& 22 S^6 T^2 - 8 S^7 T^2 + 6 S^8 T^2 - 5 T^3 - 4 S T^3 + 42 S^2 T^3 - 28 S^3 T^3 - 31 S^4 T^3 - 31 S^5 T^3 - 28 S^6 T^3 + \\
& 42 S^7 T^3 - 4 S^8 T^3 - 5 S^9 T^3 + 6 T^4 - 4 S T^4 - 8 S^2 T^4 - 31 S^3 T^4 + 77 S^4 T^4 - 23 S^5 T^4 + 77 S^6 T^4 - \\
& 31 S^7 T^4 - 8 S^8 T^4 - 4 S^9 T^4 + 6 S^{10} T^4 - 4 T^5 - 8 S T^5 + 42 S^2 T^5 - 31 S^3 T^5 - 23 S^4 T^5 - 23 S^5 T^5 - \\
& 31 S^6 T^5 + 42 S^7 T^5 - 8 S^{10} T^5 - 4 S^{11} T^5 + T^6 + 12 S T^6 - 22 S^2 T^6 - 28 S^3 T^6 + 77 S^4 T^6 - \\
& 36 S^5 T^6 + 77 S^6 T^6 - 28 S^7 T^6 - 22 S^{10} T^6 + 12 S^{11} T^6 + S^{12} T^6 - 4 S T^7 - 8 S^2 T^7 + 42 S^3 T^7 - \\
& 31 S^4 T^7 - 23 S^5 T^7 - 23 S^6 T^7 - 31 S^7 T^7 + 42 S^{10} T^7 - 8 S^{11} T^7 - 4 S^{12} T^7 + 6 S^2 T^8 - 4 S^3 T^8 - \\
& 8 S^4 T^8 - 31 S^5 T^8 + 77 S^6 T^8 - 23 S^7 T^8 + 77 S^8 T^8 - 31 S^9 T^8 - 8 S^{10} T^8 - 4 S^{11} T^8 + 6 S^{12} T^8 - \\
& 5 S^3 T^9 - 4 S^4 T^9 + 42 S^5 T^9 - 28 S^6 T^9 - 31 S^7 T^9 - 31 S^8 T^9 - 28 S^9 T^9 + 42 S^{10} T^9 - 4 S^{11} T^9 - \\
& 5 S^{12} T^9 + 6 S^4 T^{10} - 8 S^5 T^{10} - 22 S^6 T^{10} + 42 S^7 T^{10} - 8 S^8 T^{10} + 42 S^9 T^{10} - 22 S^{10} T^{10} - \\
& 8 S^{11} T^{10} + 6 S^{12} T^{10} - 4 S^5 T^{11} + 12 S^6 T^{11} - 8 S^7 T^{11} - 4 S^8 T^{11} - 4 S^9 T^{11} - 8 S^{10} T^{11} + \\
& 12 S^{11} T^{11} - 4 S^{12} T^{11} + S^6 T^{12} - 4 S^7 T^{12} + 6 S^8 T^{12} - 5 S^9 T^{12} + 6 S^{10} T^{12} - 4 S^{11} T^{12} + S^{12} T^{12}), \\
\text{Knot}[9, 48] & \rightarrow -\frac{1}{S^4 T^4} (1 - 7 S + 11 S^2 - 7 S^3 + S^4 - 7 T + 42 S T - 28 S^2 T - 28 S^3 T + 42 S^4 T - 7 S^5 T + 11 T^2 - \\
& 28 S T^2 - 183 S^2 T^2 + 333 S^3 T^2 - 183 S^4 T^2 - 28 S^5 T^2 + 11 S^6 T^2 - 7 T^3 - 28 S T^3 + 333 S^2 T^3 - 224 S^3 T^3 - \\
& 224 S^4 T^3 + 333 S^5 T^3 - 28 S^6 T^3 - 7 S^7 T^3 + T^4 + 42 S T^4 - 183 S^2 T^4 - 224 S^3 T^4 + 540 S^4 T^4 - 224 S^5 T^4 - \\
& 183 S^6 T^4 + 42 S^7 T^4 + S^8 T^4 - 7 S T^5 - 28 S^2 T^5 + 333 S^3 T^5 - 224 S^4 T^5 - 224 S^5 T^5 + 333 S^6 T^5 - \\
& 28 S^7 T^5 - 7 S^8 T^5 + 11 S^2 T^6 - 28 S^3 T^6 - 183 S^4 T^6 + 333 S^5 T^6 - 183 S^6 T^6 - 28 S^7 T^6 + 11 S^8 T^6 - \\
& 7 S^3 T^7 + 42 S^4 T^7 - 28 S^5 T^7 - 28 S^6 T^7 + 42 S^7 T^7 - 7 S^8 T^7 + S^4 T^8 - 7 S^5 T^8 + 11 S^6 T^8 - 7 S^7 T^8 + S^8 T^8), \\
\text{Knot}[9, 49] & \rightarrow \frac{1}{S^4 T^4} (57 - 111 S + 129 S^2 - 111 S^3 + 57 S^4 - 111 T + 106 S T - 35 S^2 T - 35 S^3 T + \\
& 106 S^4 T - 111 S^5 T + 129 T^2 - 35 S T^2 - 42 S^2 T^2 + 54 S^3 T^2 - 42 S^4 T^2 - 35 S^5 T^2 + 129 S^6 T^2 - \\
& 111 T^3 - 35 S T^3 + 54 S^2 T^3 - 18 S^3 T^3 - 18 S^4 T^3 + 54 S^5 T^3 - 35 S^6 T^3 - 111 S^7 T^3 + 57 T^4 + \\
& 106 S T^4 - 42 S^2 T^4 - 18 S^3 T^4 + 36 S^4 T^4 - 18 S^5 T^4 - 42 S^6 T^4 + 106 S^7 T^4 + 57 S^8 T^4 - 111 S T^5 - \\
& 35 S^2 T^5 + 54 S^3 T^5 - 18 S^4 T^5 - 18 S^5 T^5 + 54 S^6 T^5 - 35 S^7 T^5 - 111 S^8 T^5 + 129 S^2 T^6 - 35 S^3 T^6 - \\
& 42 S^4 T^6 + 54 S^5 T^6 - 42 S^6 T^6 - 35 S^7 T^6 + 129 S^8 T^6 - 111 S^3 T^7 + 106 S^4 T^7 - 35 S^5 T^7 - \\
& 35 S^6 T^7 + 106 S^7 T^7 - 111 S^8 T^7 + 57 S^4 T^8 - 111 S^5 T^8 + 129 S^6 T^8 - 111 S^7 T^8 + 57 S^8 T^8), \\
\text{Knot}[10, 1] & \rightarrow \frac{1}{S^2 T^2} 2 (18 - 43 S + 18 S^2 - 43 T + 60 S T + 60 S^2 T - 43 S^3 T + 18 T^2 + 60 S T^2 - \\
& 210 S^2 T^2 + 60 S^3 T^2 + 18 S^4 T^2 - 43 S T^3 + 60 S^2 T^3 + 60 S^3 T^3 - 43 S^4 T^3 + 18 S^2 T^4 - 43 S^3 T^4 + 18 S^4 T^4), \\
\text{Knot}[10, 2] & \rightarrow \frac{1}{S^8 T^8} (3 - 9 S + 9 S^2 - 9 S^3 + 9 S^4 - 9 S^5 + 9 S^6 - 9 S^7 + 3 S^8 - 9 T + 18 S T + \\
& 18 S^8 T - 9 S^9 T + 9 T^2 - 45 S^2 T^2 + 29 S^3 T^2 - 29 S^4 T^2 + 29 S^5 T^2 - 29 S^6 T^2 + 29 S^7 T^2 - \\
& 45 S^8 T^2 + 9 S^{10} T^2 - 9 T^3 + 29 S^2 T^3 + 12 S^3 T^3 + 12 S^8 T^3 + 29 S^9 T^3 - 9 S^{11} T^3 + 9 T^4 - \\
& 29 S^2 T^4 - 30 S^4 T^4 + 20 S^5 T^4 - 20 S^6 T^4 + 20 S^7 T^4 - 30 S^8 T^4 - 29 S^{10} T^4 + 9 S^{12} T^4 - 9 T^5 + \\
& 29 S^2 T^5 + 20 S^4 T^5 + 6 S^5 T^5 + 6 S^8 T^5 + 20 S^9 T^5 + 29 S^{11} T^5 - 9 S^{13} T^5 + 9 T^6 - 29 S^2 T^6 - \\
& 20 S^4 T^6 - 15 S^6 T^6 + 11 S^7 T^6 - 15 S^8 T^6 - 20 S^{10} T^6 - 29 S^{12} T^6 + 9 S^{14} T^6 - 9 T^7 + 29 S^2 T^7 + \\
& 20 S^4 T^7 + 11 S^6 T^7 + 11 S^9 T^7 + 20 S^{11} T^7 + 29 S^{13} T^7 - 9 S^{15} T^7 + 3 T^8 + 18 S T^8 - 45 S^2 T^8 + \\
& 12 S^3 T^8 - 30 S^4 T^8 + 6 S^5 T^8 - 15 S^6 T^8 - 15 S^{10} T^8 + 6 S^{11} T^8 - 30 S^{12} T^8 + 12 S^{13} T^8 - \\
& 45 S^{14} T^8 + 18 S^{15} T^8 + 3 S^{16} T^8 - 9 S T^9 + 29 S^3 T^9 + 20 S^5 T^9 + 11 S^7 T^9 + 11 S^{10} T^9 + 20 S^{12} T^9 + \\
& 29 S^{14} T^9 - 9 S^{16} T^9 + 9 S^2 T^{10} - 29 S^4 T^{10} - 20 S^6 T^{10} - 15 S^8 T^{10} + 11 S^9 T^{10} - 15 S^{10} T^{10} - \\
& 20 S^{12} T^{10} - 29 S^{14} T^{10} + 9 S^{16} T^{10} - 9 S^3 T^{11} + 29 S^5 T^{11} + 20 S^7 T^{11} + 6 S^8 T^{11} + 6 S^{11} T^{11} +
\end{aligned}$$

$$\begin{aligned}
& 20 S^{12} T^{11} + 29 S^{14} T^{11} - 9 S^{16} T^{11} + 9 S^4 T^{12} - 29 S^6 T^{12} - 30 S^8 T^{12} + 20 S^9 T^{12} - 20 S^{10} T^{12} + \\
& 20 S^{11} T^{12} - 30 S^{12} T^{12} - 29 S^{14} T^{12} + 9 S^{16} T^{12} - 9 S^5 T^{13} + 29 S^7 T^{13} + 12 S^8 T^{13} + 12 S^{13} T^{13} + \\
& 29 S^{14} T^{13} - 9 S^{16} T^{13} + 9 S^6 T^{14} - 45 S^8 T^{14} + 29 S^9 T^{14} - 29 S^{10} T^{14} + 29 S^{11} T^{14} - 29 S^{12} T^{14} + \\
& 29 S^{13} T^{14} - 45 S^{14} T^{14} + 9 S^{16} T^{14} - 9 S^7 T^{15} + 18 S^8 T^{15} + 18 S^{15} T^{15} - 9 S^{16} T^{15} + 3 S^8 T^{16} - \\
& 9 S^9 T^{16} + 9 S^{10} T^{16} - 9 S^{11} T^{16} + 9 S^{12} T^{16} - 9 S^{13} T^{16} + 9 S^{14} T^{16} - 9 S^{15} T^{16} + 3 S^{16} T^{16} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 3] & \rightarrow \frac{1}{S^2 T^2} \left(45 - 101 S + 45 S^2 - 101 T + 126 S T + 126 S^2 T - 101 S^3 T + \right. \\
& 45 T^2 + 126 S T^2 - 420 S^2 T^2 + 126 S^3 T^2 + 45 S^4 T^2 - 101 S T^3 + \\
& \left. 126 S^2 T^3 + 126 S^3 T^3 - 101 S^4 T^3 + 45 S^2 T^4 - 101 S^3 T^4 + 45 S^4 T^4 \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 4] & \rightarrow \frac{1}{S^4 T^4} \left(18 - 40 S + 40 S^2 - 40 S^3 + 18 S^4 - 40 T + 48 S T + 48 S^4 T - 40 S^5 T + 40 T^2 - \right. \\
& 89 S^2 T^2 + 77 S^3 T^2 - 89 S^4 T^2 + 40 S^6 T^2 - 40 T^3 + 77 S^2 T^3 - 36 S^3 T^3 - 36 S^4 T^3 + 77 S^5 T^3 - 40 S^7 T^3 + \\
& 18 T^4 + 48 S T^4 - 89 S^2 T^4 - 36 S^3 T^4 + 132 S^4 T^4 - 36 S^5 T^4 - 89 S^6 T^4 + 48 S^7 T^4 + 18 S^8 T^4 - 40 S T^5 + \\
& 77 S^3 T^5 - 36 S^4 T^5 - 36 S^5 T^5 + 77 S^6 T^5 - 40 S^8 T^5 + 40 S^2 T^6 - 89 S^4 T^6 + 77 S^5 T^6 - 89 S^6 T^6 + 40 S^8 T^6 - \\
& \left. 40 S^3 T^7 + 48 S^4 T^7 + 48 S^7 T^7 - 40 S^8 T^7 + 18 S^4 T^8 - 40 S^5 T^8 + 40 S^6 T^8 - 40 S^7 T^8 + 18 S^8 T^8 \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 5] & \rightarrow \frac{1}{S^8 T^8} \left(2 - 6 S + 10 S^2 - 10 S^3 + 10 S^4 - 10 S^5 + 10 S^6 - 6 S^7 + 2 S^8 - 6 T + 12 S T - \right. \\
& 12 S^2 T - 12 S^7 T + 12 S^8 T - 6 S^9 T + 10 T^2 - 12 S T^2 + 6 S^2 T^2 + 12 S^3 T^2 + 6 S^4 T^2 - 6 S^5 T^2 + \\
& 6 S^6 T^2 + 12 S^7 T^2 + 6 S^8 T^2 - 12 S^9 T^2 + 10 S^{10} T^2 - 10 T^3 + 12 S^2 T^3 - 26 S^3 T^3 - 14 S^4 T^3 - \\
& 14 S^7 T^3 - 26 S^8 T^3 + 12 S^9 T^3 - 10 S^{11} T^3 + 10 T^4 + 6 S^2 T^4 - 14 S^3 T^4 + 66 S^4 T^4 - 32 S^5 T^4 + \\
& 40 S^6 T^4 - 32 S^7 T^4 + 66 S^8 T^4 - 14 S^9 T^4 + 6 S^{10} T^4 + 10 S^{12} T^4 - 10 T^5 - 6 S^2 T^5 - 32 S^4 T^5 - \\
& 16 S^5 T^5 - 4 S^6 T^5 - 4 S^7 T^5 - 16 S^8 T^5 - 32 S^9 T^5 - 6 S^{11} T^5 - 10 S^{13} T^5 + 10 T^6 + 6 S^2 T^6 + 40 S^4 T^6 - \\
& 4 S^5 T^6 + 31 S^6 T^6 - 19 S^7 T^6 + 31 S^8 T^6 - 4 S^9 T^6 + 40 S^{10} T^6 + 6 S^{12} T^6 + 10 S^{14} T^6 - 6 T^7 - \\
& 12 S T^7 + 12 S^2 T^7 - 14 S^3 T^7 - 32 S^4 T^7 - 4 S^5 T^7 - 19 S^6 T^7 - 19 S^9 T^7 - 4 S^{10} T^7 - 32 S^{11} T^7 - \\
& 14 S^{12} T^7 + 12 S^{13} T^7 - 12 S^{14} T^7 - 6 S^{15} T^7 + 2 T^8 + 12 S T^8 + 6 S^2 T^8 - 26 S^3 T^8 + 66 S^4 T^8 - \\
& 16 S^5 T^8 + 31 S^6 T^8 + 31 S^{10} T^8 - 16 S^{11} T^8 + 66 S^{12} T^8 - 26 S^{13} T^8 + 6 S^{14} T^8 + 12 S^{15} T^8 + \\
& 2 S^{16} T^8 - 6 S T^9 - 12 S^2 T^9 + 12 S^3 T^9 - 14 S^4 T^9 - 32 S^5 T^9 - 4 S^6 T^9 - 19 S^7 T^9 - 19 S^{10} T^9 - \\
& 4 S^{11} T^9 - 32 S^{12} T^9 - 14 S^{13} T^9 + 12 S^{14} T^9 - 12 S^{15} T^9 - 6 S^{16} T^9 + 10 S^2 T^{10} + 6 S^4 T^{10} + \\
& 40 S^6 T^{10} - 4 S^7 T^{10} + 31 S^8 T^{10} - 19 S^9 T^{10} + 31 S^{10} T^{10} - 4 S^{11} T^{10} + 40 S^{12} T^{10} + 6 S^{14} T^{10} + \\
& 10 S^{16} T^{10} - 10 S^3 T^{11} - 6 S^5 T^{11} - 32 S^7 T^{11} - 16 S^8 T^{11} - 4 S^9 T^{11} - 4 S^{10} T^{11} - 16 S^{11} T^{11} - \\
& 32 S^{12} T^{11} - 6 S^{14} T^{11} - 10 S^{16} T^{11} + 10 S^4 T^{12} + 6 S^6 T^{12} - 14 S^7 T^{12} + 66 S^8 T^{12} - 32 S^9 T^{12} + \\
& 40 S^{10} T^{12} - 32 S^{11} T^{12} + 66 S^{12} T^{12} - 14 S^{13} T^{12} + 6 S^{14} T^{12} + 10 S^{16} T^{12} - 10 S^5 T^{13} + 12 S^7 T^{13} - \\
& 26 S^8 T^{13} - 14 S^9 T^{13} - 14 S^{12} T^{13} - 26 S^{13} T^{13} + 12 S^{14} T^{13} - 10 S^{16} T^{13} + 10 S^6 T^{14} - 12 S^7 T^{14} + \\
& 6 S^8 T^{14} + 12 S^9 T^{14} + 6 S^{10} T^{14} - 6 S^{11} T^{14} + 6 S^{12} T^{14} + 12 S^{13} T^{14} + 6 S^{14} T^{14} - 12 S^{15} T^{14} + \\
& 10 S^{16} T^{14} - 6 S^7 T^{15} + 12 S^8 T^{15} - 12 S^9 T^{15} - 12 S^{14} T^{15} + 12 S^{15} T^{15} - 6 S^{16} T^{15} + 2 S^8 T^{16} - \\
& \left. 6 S^9 T^{16} + 10 S^{10} T^{16} - 10 S^{11} T^{16} + 10 S^{12} T^{16} - 10 S^{13} T^{16} + 10 S^{14} T^{16} - 6 S^{15} T^{16} + 2 S^{16} T^{16} \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 6] & \rightarrow \frac{1}{S^6 T^6} \left(17 - 51 S + 59 S^2 - 59 S^3 + 59 S^4 - 51 S^5 + 17 S^6 - 51 T + 102 S T - \right. \\
& 24 S^2 T - 24 S^5 T + 102 S^6 T - 51 S^7 T + 59 T^2 - 24 S T^2 - 201 S^2 T^2 + 171 S^3 T^2 - 147 S^4 T^2 + \\
& 171 S^5 T^2 - 201 S^6 T^2 - 24 S^7 T^2 + 59 S^8 T^2 - 59 T^3 + 171 S^2 T^3 + 14 S^3 T^3 - 16 S^4 T^3 - \\
& 16 S^5 T^3 + 14 S^6 T^3 + 171 S^7 T^3 - 59 S^9 T^3 + 59 T^4 - 147 S^2 T^4 - 16 S^3 T^4 - 85 S^4 T^4 + 97 S^5 T^4 - \\
& 85 S^6 T^4 - 16 S^7 T^4 - 147 S^8 T^4 + 59 S^{10} T^4 - 51 T^5 - 24 S T^5 + 171 S^2 T^5 - 16 S^3 T^5 + 97 S^4 T^5 - \\
& 18 S^5 T^5 - 18 S^6 T^5 + 97 S^7 T^5 - 16 S^8 T^5 + 171 S^9 T^5 - 24 S^{10} T^5 - 51 S^{11} T^5 + 17 T^6 + 102 S T^6 - \\
& 201 S^2 T^6 + 14 S^3 T^6 - 85 S^4 T^6 - 18 S^5 T^6 + 12 S^6 T^6 - 18 S^7 T^6 - 85 S^8 T^6 + 14 S^9 T^6 - \\
& 201 S^{10} T^6 + 102 S^{11} T^6 + 17 S^{12} T^6 - 51 S T^7 - 24 S^2 T^7 + 171 S^3 T^7 - 16 S^4 T^7 + 97 S^5 T^7 - \\
& \left. 18 S^6 T^7 - 18 S^7 T^7 + 97 S^8 T^7 - 16 S^9 T^7 + 171 S^{10} T^7 - 24 S^{11} T^7 - 51 S^{12} T^7 + 59 S^2 T^8 - \right.
\end{aligned}$$

$$\begin{aligned}
& 147 S^4 T^8 - 16 S^5 T^8 - 85 S^6 T^8 + 97 S^7 T^8 - 85 S^8 T^8 - 16 S^9 T^8 - 147 S^{10} T^8 + 59 S^{12} T^8 - \\
& 59 S^3 T^9 + 171 S^5 T^9 + 14 S^6 T^9 - 16 S^7 T^9 - 16 S^8 T^9 + 14 S^9 T^9 + 171 S^{10} T^9 - 59 S^{12} T^9 + \\
& 59 S^4 T^{10} - 24 S^5 T^{10} - 201 S^6 T^{10} + 171 S^7 T^{10} - 147 S^8 T^{10} + 171 S^9 T^{10} - 201 S^{10} T^{10} - \\
& 24 S^{11} T^{10} + 59 S^{12} T^{10} - 51 S^5 T^{11} + 102 S^6 T^{11} - 24 S^7 T^{11} - 24 S^{10} T^{11} + 102 S^{11} T^{11} - \\
& 51 S^{12} T^{11} + 17 S^6 T^{12} - 51 S^7 T^{12} + 59 S^8 T^{12} - 59 S^9 T^{12} + 59 S^{10} T^{12} - 51 S^{11} T^{12} + 17 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 7] & \rightarrow \frac{1}{S^4 T^4} \Big(36 - 130 S + 174 S^2 - 130 S^3 + 36 S^4 - 130 T + 340 S T - 160 S^2 T - \\
& 160 S^3 T + 340 S^4 T - 130 S^5 T + 174 T^2 - 160 S T^2 - 681 S^2 T^2 + 1041 S^3 T^2 - 681 S^4 T^2 - \\
& 160 S^5 T^2 + 174 S^6 T^2 - 130 T^3 - 160 S T^3 + 1041 S^2 T^3 - 500 S^3 T^3 - 500 S^4 T^3 + 1041 S^5 T^3 - \\
& 160 S^6 T^3 - 130 S^7 T^3 + 36 T^4 + 340 S T^4 - 681 S^2 T^4 - 500 S^3 T^4 + 1020 S^4 T^4 - 500 S^5 T^4 - \\
& 681 S^6 T^4 + 340 S^7 T^4 + 36 S^8 T^4 - 130 S T^5 - 160 S^2 T^5 + 1041 S^3 T^5 - 500 S^4 T^5 - \\
& 500 S^5 T^5 + 1041 S^6 T^5 - 160 S^7 T^5 - 130 S^8 T^5 + 174 S^2 T^6 - 160 S^3 T^6 - 681 S^4 T^6 + \\
& 1041 S^5 T^6 - 681 S^6 T^6 - 160 S^7 T^6 + 174 S^8 T^6 - 130 S^3 T^7 + 340 S^4 T^7 - 160 S^5 T^7 - \\
& 160 S^6 T^7 + 340 S^7 T^7 - 130 S^8 T^7 + 36 S^4 T^8 - 130 S^5 T^8 + 174 S^6 T^8 - 130 S^7 T^8 + 36 S^8 T^8 \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 8] & \rightarrow \frac{1}{S^6 T^6} \Big(15 - 37 S + 37 S^2 - 37 S^3 + 37 S^4 - 37 S^5 + 15 S^6 - 37 T + 54 S T + 54 S^6 T - \\
& 37 S^7 T + 37 T^2 - 102 S^2 T^2 + 60 S^3 T^2 - 60 S^4 T^2 + 60 S^5 T^2 - 102 S^6 T^2 + 37 S^8 T^2 - 37 T^3 + \\
& 60 S^2 T^3 + 24 S^3 T^3 + 24 S^6 T^3 + 60 S^7 T^3 - 37 S^9 T^3 + 37 T^4 - 60 S^2 T^4 - 47 S^4 T^4 + 35 S^5 T^4 - \\
& 47 S^6 T^4 - 60 S^8 T^4 + 37 S^{10} T^4 - 37 T^5 + 60 S^2 T^5 + 35 S^4 T^5 - 6 S^5 T^5 - 6 S^6 T^5 + 35 S^7 T^5 + 60 S^9 T^5 - \\
& 37 S^{11} T^5 + 15 T^6 + 54 S T^6 - 102 S^2 T^6 + 24 S^3 T^6 - 47 S^4 T^6 - 6 S^5 T^6 + 24 S^6 T^6 - 6 S^7 T^6 - 47 S^8 T^6 + \\
& 24 S^9 T^6 - 102 S^{10} T^6 + 54 S^{11} T^6 + 15 S^{12} T^6 - 37 S T^7 + 60 S^3 T^7 + 35 S^5 T^7 - 6 S^6 T^7 - 6 S^7 T^7 + \\
& 35 S^8 T^7 + 60 S^{10} T^7 - 37 S^{12} T^7 + 37 S^2 T^8 - 60 S^4 T^8 - 47 S^6 T^8 + 35 S^7 T^8 - 47 S^8 T^8 - 60 S^{10} T^8 + \\
& 37 S^{12} T^8 - 37 S^3 T^9 + 60 S^5 T^9 + 24 S^6 T^9 + 24 S^9 T^9 + 60 S^{10} T^9 - 37 S^{12} T^9 + 37 S^4 T^{10} - 102 S^6 T^{10} + \\
& 60 S^7 T^{10} - 60 S^8 T^{10} + 60 S^9 T^{10} - 102 S^{10} T^{10} + 37 S^{12} T^{10} - 37 S^5 T^{11} + 54 S^6 T^{11} + 54 S^{11} T^{11} - \\
& 37 S^{12} T^{11} + 15 S^6 T^{12} - 37 S^7 T^{12} + 37 S^8 T^{12} - 37 S^9 T^{12} + 37 S^{10} T^{12} - 37 S^{11} T^{12} + 15 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 9] & \rightarrow -\frac{1}{S^8 T^8} \Big(1 - 3 S + 5 S^2 - 7 S^3 + 7 S^4 - 7 S^5 + 5 S^6 - 3 S^7 + S^8 - 3 T + 6 S T - 6 S^2 T + \\
& 6 S^3 T + 6 S^6 T - 6 S^7 T + 6 S^8 T - 3 S^9 T + 5 T^2 - 6 S T^2 + 3 S^2 T^2 - 5 S^3 T^2 - 5 S^4 T^2 - 3 S^5 T^2 - 5 S^6 T^2 - \\
& 5 S^7 T^2 + 3 S^8 T^2 - 6 S^9 T^2 + 5 S^{10} T^2 - 7 T^3 + 6 S T^3 - 5 S^2 T^3 + 12 S^3 T^3 + 8 S^4 T^3 + 8 S^5 T^3 + 8 S^6 T^3 + \\
& 8 S^7 T^3 + 12 S^8 T^3 - 5 S^9 T^3 + 6 S^{10} T^3 - 7 S^{11} T^3 + 7 T^4 - 5 S^2 T^4 + 8 S^3 T^4 - 47 S^4 T^4 + 23 S^5 T^4 - \\
& 47 S^6 T^4 + 23 S^7 T^4 - 47 S^8 T^4 + 8 S^9 T^4 - 5 S^{10} T^4 + 7 S^{12} T^4 - 7 T^5 - 3 S^2 T^5 + 8 S^3 T^5 + 23 S^4 T^5 + \\
& 16 S^5 T^5 + 12 S^6 T^5 + 12 S^7 T^5 + 16 S^8 T^5 + 23 S^9 T^5 + 8 S^{10} T^5 - 3 S^{11} T^5 - 7 S^{13} T^5 + 5 T^6 + 6 S T^6 - \\
& 5 S^2 T^6 + 8 S^3 T^6 - 47 S^4 T^6 + 12 S^5 T^6 - 47 S^6 T^6 + 27 S^7 T^6 - 47 S^8 T^6 + 12 S^9 T^6 - 47 S^{10} T^6 + 8 S^{11} T^6 - \\
& 5 S^{12} T^6 + 6 S^{13} T^6 + 5 S^{14} T^6 - 3 T^7 - 6 S T^7 - 5 S^2 T^7 + 8 S^3 T^7 + 23 S^4 T^7 + 12 S^5 T^7 + 27 S^6 T^7 + 27 S^9 T^7 + \\
& 12 S^{10} T^7 + 23 S^{11} T^7 + 8 S^{12} T^7 - 5 S^{13} T^7 - 6 S^{14} T^7 - 3 S^{15} T^7 + T^8 + 6 S T^8 + 3 S^2 T^8 + 12 S^3 T^8 - \\
& 47 S^4 T^8 + 16 S^5 T^8 - 47 S^6 T^8 - 47 S^{10} T^8 + 16 S^{11} T^8 - 47 S^{12} T^8 + 12 S^{13} T^8 + 3 S^{14} T^8 + 6 S^{15} T^8 + \\
& S^{16} T^8 - 3 S T^9 - 6 S^2 T^9 - 5 S^3 T^9 + 8 S^4 T^9 + 23 S^5 T^9 + 12 S^6 T^9 + 27 S^7 T^9 + 27 S^{10} T^9 + 12 S^{11} T^9 + \\
& 23 S^{12} T^9 + 8 S^{13} T^9 - 5 S^{14} T^9 - 6 S^{15} T^9 - 3 S^{16} T^9 + 5 S^2 T^{10} + 6 S^3 T^{10} - 5 S^4 T^{10} + 8 S^5 T^{10} - 47 S^6 T^{10} + \\
& 12 S^7 T^{10} - 47 S^8 T^{10} + 27 S^9 T^{10} - 47 S^{10} T^{10} + 12 S^{11} T^{10} - 47 S^{12} T^{10} + 8 S^{13} T^{10} - 5 S^{14} T^{10} + 6 S^{15} T^{10} + \\
& 5 S^{16} T^{10} - 7 S^3 T^{11} - 3 S^5 T^{11} + 8 S^6 T^{11} + 23 S^7 T^{11} + 16 S^8 T^{11} + 12 S^9 T^{11} + 12 S^{10} T^{11} + 16 S^{11} T^{11} + \\
& 23 S^{12} T^{11} + 8 S^{13} T^{11} - 3 S^{14} T^{11} - 7 S^{16} T^{11} + 7 S^4 T^{12} - 5 S^6 T^{12} + 8 S^7 T^{12} - 47 S^8 T^{12} + 23 S^9 T^{12} - \\
& 47 S^{10} T^{12} + 23 S^{11} T^{12} - 47 S^{12} T^{12} + 8 S^{13} T^{12} - 5 S^{14} T^{12} + 7 S^{16} T^{12} - 7 S^5 T^{13} + 6 S^6 T^{13} - 5 S^7 T^{13} + \\
& 12 S^8 T^{13} + 8 S^9 T^{13} + 8 S^{10} T^{13} + 8 S^{11} T^{13} + 8 S^{12} T^{13} + 12 S^{13} T^{13} - 5 S^{14} T^{13} + 6 S^{15} T^{13} - 7 S^{16} T^{13} + \\
& 5 S^6 T^{14} - 6 S^7 T^{14} + 3 S^8 T^{14} - 5 S^9 T^{14} - 5 S^{10} T^{14} - 3 S^{11} T^{14} - 5 S^{12} T^{14} - 5 S^{13} T^{14} + 3 S^{14} T^{14} - \\
& 6 S^{15} T^{14} + 5 S^{16} T^{14} - 3 S^7 T^{15} + 6 S^8 T^{15} - 6 S^9 T^{15} + 6 S^{10} T^{15} + 6 S^{13} T^{15} - 6 S^{14} T^{15} + 6 S^{15} T^{15} - \\
& 3 S^{16} T^{15} + S^8 T^{16} - 3 S^9 T^{16} + 5 S^{10} T^{16} - 7 S^{11} T^{16} + 7 S^{12} T^{16} - 7 S^{13} T^{16} + 5 S^{14} T^{16} - 3 S^{15} T^{16} + S^{16} T^{16} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 10] &\rightarrow \frac{1}{S^4 T^4} \left(9 - 31 S + 49 S^2 - 31 S^3 + 9 S^4 - 31 T + 76 S T - 62 S^2 T - 62 S^3 T + \right. \\
&76 S^4 T - 31 S^5 T + 49 T^2 - 62 S T^2 - 36 S^2 T^2 + 222 S^3 T^2 - 36 S^4 T^2 - 62 S^5 T^2 + 49 S^6 T^2 - \\
&31 T^3 - 62 S T^3 + 222 S^2 T^3 - 262 S^3 T^3 - 262 S^4 T^3 + 222 S^5 T^3 - 62 S^6 T^3 - 31 S^7 T^3 + 9 T^4 + \\
&76 S T^4 - 36 S^2 T^4 - 262 S^3 T^4 + 768 S^4 T^4 - 262 S^5 T^4 - 36 S^6 T^4 + 76 S^7 T^4 + 9 S^8 T^4 - 31 S T^5 - \\
&62 S^2 T^5 + 222 S^3 T^5 - 262 S^4 T^5 - 262 S^5 T^5 + 222 S^6 T^5 - 62 S^7 T^5 - 31 S^8 T^5 + 49 S^2 T^6 - \\
&62 S^3 T^6 - 36 S^4 T^6 + 222 S^5 T^6 - 36 S^6 T^6 - 62 S^7 T^6 + 49 S^8 T^6 - 31 S^3 T^7 + 76 S^4 T^7 - \\
&62 S^5 T^7 - 62 S^6 T^7 + 76 S^7 T^7 - 31 S^8 T^7 + 9 S^4 T^8 - 31 S^5 T^8 + 49 S^6 T^8 - 31 S^7 T^8 + 9 S^8 T^8 \left. \right), \\
\text{Knot}[10, 11] &\rightarrow \frac{1}{S^4 T^4} 2 \left(32 - 86 S + 100 S^2 - 86 S^3 + 32 S^4 - 86 T + 145 S T - 38 S^2 T - 38 S^3 T + \right. \\
&145 S^4 T - 86 S^5 T + 100 T^2 - 38 S T^2 - 237 S^2 T^2 + 256 S^3 T^2 - 237 S^4 T^2 - 38 S^5 T^2 + 100 S^6 T^2 - \\
&86 T^3 - 38 S T^3 + 256 S^2 T^3 - 67 S^3 T^3 - 67 S^4 T^3 + 256 S^5 T^3 - 38 S^6 T^3 - 86 S^7 T^3 + 32 T^4 + \\
&145 S T^4 - 237 S^2 T^4 - 67 S^3 T^4 + 114 S^4 T^4 - 67 S^5 T^4 - 237 S^6 T^4 + 145 S^7 T^4 + 32 S^8 T^4 - \\
&86 S T^5 - 38 S^2 T^5 + 256 S^3 T^5 - 67 S^4 T^5 - 67 S^5 T^5 + 256 S^6 T^5 - 38 S^7 T^5 - 86 S^8 T^5 + 100 S^2 T^6 - \\
&38 S^3 T^6 - 237 S^4 T^6 + 256 S^5 T^6 - 237 S^6 T^6 - 38 S^7 T^6 + 100 S^8 T^6 - 86 S^3 T^7 + 145 S^4 T^7 - \\
&38 S^5 T^7 - 38 S^6 T^7 + 145 S^7 T^7 - 86 S^8 T^7 + 32 S^4 T^8 - 86 S^5 T^8 + 100 S^6 T^8 - 86 S^7 T^8 + 32 S^8 T^8 \left. \right), \\
\text{Knot}[10, 12] &\rightarrow \frac{1}{S^6 T^6} \left(9 - 27 S + 45 S^2 - 49 S^3 + 45 S^4 - 27 S^5 + 9 S^6 - 27 T + 54 S T - 54 S^2 T + \right. \\
&12 S^3 T + 12 S^4 T - 54 S^5 T + 54 S^6 T - 27 S^7 T + 45 T^2 - 54 S T^2 + 27 S^2 T^2 + 37 S^3 T^2 - 15 S^4 T^2 + \\
&37 S^5 T^2 + 27 S^6 T^2 - 54 S^7 T^2 + 45 S^8 T^2 - 49 T^3 + 12 S T^3 + 37 S^2 T^3 - 94 S^3 T^3 - 2 S^4 T^3 - 2 S^5 T^3 - \\
&94 S^6 T^3 + 37 S^7 T^3 + 12 S^8 T^3 - 49 S^9 T^3 + 45 T^4 + 12 S T^4 - 15 S^2 T^4 - 2 S^3 T^4 + 171 S^4 T^4 - \\
&139 S^5 T^4 + 171 S^6 T^4 - 2 S^7 T^4 - 15 S^8 T^4 + 12 S^9 T^4 + 45 S^{10} T^4 - 27 T^5 - 54 S T^5 + 37 S^2 T^5 - \\
&2 S^3 T^5 - 139 S^4 T^5 + 14 S^5 T^5 + 14 S^6 T^5 - 139 S^7 T^5 - 2 S^8 T^5 + 37 S^9 T^5 - 54 S^{10} T^5 - 27 S^{11} T^5 + \\
&9 T^6 + 54 S T^6 + 27 S^2 T^6 - 94 S^3 T^6 + 171 S^4 T^6 + 14 S^5 T^6 + 14 S^7 T^6 + 171 S^8 T^6 - 94 S^9 T^6 + \\
&27 S^{10} T^6 + 54 S^{11} T^6 + 9 S^{12} T^6 - 27 S T^7 - 54 S^2 T^7 + 37 S^3 T^7 - 2 S^4 T^7 - 139 S^5 T^7 + 14 S^6 T^7 + \\
&14 S^7 T^7 - 139 S^8 T^7 - 2 S^9 T^7 + 37 S^{10} T^7 - 54 S^{11} T^7 - 27 S^{12} T^7 + 45 S^2 T^8 + 12 S^3 T^8 - 15 S^4 T^8 - \\
&2 S^5 T^8 + 171 S^6 T^8 - 139 S^7 T^8 + 171 S^8 T^8 - 2 S^9 T^8 - 15 S^{10} T^8 + 12 S^{11} T^8 + 45 S^{12} T^8 - 49 S^3 T^9 + \\
&12 S^4 T^9 + 37 S^5 T^9 - 94 S^6 T^9 - 2 S^7 T^9 - 2 S^8 T^9 - 94 S^9 T^9 + 37 S^{10} T^9 + 12 S^{11} T^9 - 49 S^{12} T^9 + \\
&45 S^4 T^{10} - 54 S^5 T^{10} + 27 S^6 T^{10} + 37 S^7 T^{10} - 15 S^8 T^{10} + 37 S^9 T^{10} + 27 S^{10} T^{10} - 54 S^{11} T^{10} + \\
&45 S^{12} T^{10} - 27 S^5 T^{11} + 54 S^6 T^{11} - 54 S^7 T^{11} + 12 S^8 T^{11} + 12 S^9 T^{11} - 54 S^{10} T^{11} + 54 S^{11} T^{11} - \\
&27 S^{12} T^{11} + 9 S^6 T^{12} - 27 S^7 T^{12} + 45 S^8 T^{12} - 49 S^9 T^{12} + 45 S^{10} T^{12} - 27 S^{11} T^{12} + 9 S^{12} T^{12} \left. \right), \\
\text{Knot}[10, 13] &\rightarrow -\frac{1}{S^4 T^4} \left(1 - 7 S + 13 S^2 - 7 S^3 + S^4 - 7 T + 42 S T - 42 S^2 T - 42 S^3 T + 42 S^4 T - \right. \\
&7 S^5 T + 13 T^2 - 42 S T^2 - 184 S^2 T^2 + 502 S^3 T^2 - 184 S^4 T^2 - 42 S^5 T^2 + 13 S^6 T^2 - 7 T^3 - \\
&42 S T^3 + 502 S^2 T^3 - 552 S^3 T^3 - 552 S^4 T^3 + 502 S^5 T^3 - 42 S^6 T^3 - 7 S^7 T^3 + T^4 + 42 S T^4 - \\
&184 S^2 T^4 - 552 S^3 T^4 + 1656 S^4 T^4 - 552 S^5 T^4 - 184 S^6 T^4 + 42 S^7 T^4 + S^8 T^4 - 7 S T^5 - \\
&42 S^2 T^5 + 502 S^3 T^5 - 552 S^4 T^5 - 552 S^5 T^5 + 502 S^6 T^5 - 42 S^7 T^5 - 7 S^8 T^5 + 13 S^2 T^6 - \\
&42 S^3 T^6 - 184 S^4 T^6 + 502 S^5 T^6 - 184 S^6 T^6 - 42 S^7 T^6 + 13 S^8 T^6 - 7 S^3 T^7 + 42 S^4 T^7 - \\
&42 S^5 T^7 - 42 S^6 T^7 + 42 S^7 T^7 - 7 S^8 T^7 + S^4 T^8 - 7 S^5 T^8 + 13 S^6 T^8 - 7 S^7 T^8 + S^8 T^8 \left. \right), \\
\text{Knot}[10, 14] &\rightarrow \frac{1}{S^6 T^6} \left(17 - 67 S + 99 S^2 - 107 S^3 + 99 S^4 - 67 S^5 + 17 S^6 - 67 T + 198 S T - \right. \\
&128 S^2 T + 32 S^3 T + 32 S^4 T - 128 S^5 T + 198 S^6 T - 67 S^7 T + 99 T^2 - 128 S T^2 - 368 S^2 T^2 + \\
&558 S^3 T^2 - 554 S^4 T^2 + 558 S^5 T^2 - 368 S^6 T^2 - 128 S^7 T^2 + 99 S^8 T^2 - 107 T^3 + 32 S T^3 + \\
&558 S^2 T^3 - 280 S^3 T^3 + 32 S^4 T^3 + 32 S^5 T^3 - 280 S^6 T^3 + 558 S^7 T^3 + 32 S^8 T^3 - 107 S^9 T^3 + \\
&99 T^4 + 32 S T^4 - 554 S^2 T^4 + 32 S^3 T^4 - 28 S^4 T^4 + 134 S^5 T^4 - 28 S^6 T^4 + 32 S^7 T^4 - 554 S^8 T^4 + \\
&32 S^9 T^4 + 99 S^{10} T^4 - 67 T^5 - 128 S T^5 + 558 S^2 T^5 + 32 S^3 T^5 + 134 S^4 T^5 - 96 S^5 T^5 - \left. \right)
\end{aligned}$$

$$\begin{aligned}
& 96 S^6 T^5 + 134 S^7 T^5 + 32 S^8 T^5 + 558 S^9 T^5 - 128 S^{10} T^5 - 67 S^{11} T^5 + 17 T^6 + 198 S T^6 - \\
& 368 S^2 T^6 - 280 S^3 T^6 - 28 S^4 T^6 - 96 S^5 T^6 + 192 S^6 T^6 - 96 S^7 T^6 - 28 S^8 T^6 - 280 S^9 T^6 - \\
& 368 S^{10} T^6 + 198 S^{11} T^6 + 17 S^{12} T^6 - 67 S T^7 - 128 S^2 T^7 + 558 S^3 T^7 + 32 S^4 T^7 + 134 S^5 T^7 - \\
& 96 S^6 T^7 - 96 S^7 T^7 + 134 S^8 T^7 + 32 S^9 T^7 + 558 S^{10} T^7 - 128 S^{11} T^7 - 67 S^{12} T^7 + 99 S^2 T^8 + \\
& 32 S^3 T^8 - 554 S^4 T^8 + 32 S^5 T^8 - 28 S^6 T^8 + 134 S^7 T^8 - 28 S^8 T^8 + 32 S^9 T^8 - 554 S^{10} T^8 + \\
& 32 S^{11} T^8 + 99 S^{12} T^8 - 107 S^3 T^9 + 32 S^4 T^9 + 558 S^5 T^9 - 280 S^6 T^9 + 32 S^7 T^9 + 32 S^8 T^9 - \\
& 280 S^9 T^9 + 558 S^{10} T^9 + 32 S^{11} T^9 - 107 S^{12} T^9 + 99 S^4 T^{10} - 128 S^5 T^{10} - 368 S^6 T^{10} + \\
& 558 S^7 T^{10} - 554 S^8 T^{10} + 558 S^9 T^{10} - 368 S^{10} T^{10} - 128 S^{11} T^{10} + 99 S^{12} T^{10} - 67 S^5 T^{11} + \\
& 198 S^6 T^{11} - 128 S^7 T^{11} + 32 S^8 T^{11} + 32 S^9 T^{11} - 128 S^{10} T^{11} + 198 S^{11} T^{11} - 67 S^{12} T^{11} + \\
& 17 S^6 T^{12} - 67 S^7 T^{12} + 99 S^8 T^{12} - 107 S^9 T^{12} + 99 S^{10} T^{12} - 67 S^{11} T^{12} + 17 S^{12} T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 15] \rightarrow \frac{1}{S^6 T^6} (7 - 21 S + 31 S^2 - 31 S^3 + 31 S^4 - 21 S^5 + 7 S^6 - 21 T + 42 S T - 30 S^2 T -$$

$$\begin{aligned}
& 30 S^5 T + 42 S^6 T - 21 S^7 T + 31 T^2 - 30 S T^2 - 27 S^2 T^2 + 71 S^3 T^2 - 39 S^4 T^2 + 71 S^5 T^2 - \\
& 27 S^6 T^2 - 30 S^7 T^2 + 31 S^8 T^2 - 31 T^3 + 71 S^2 T^3 - 74 S^3 T^3 - 8 S^4 T^3 - 8 S^5 T^3 - 74 S^6 T^3 + \\
& 71 S^7 T^3 - 31 S^9 T^3 + 31 T^4 - 39 S^2 T^4 - 8 S^3 T^4 + 93 S^4 T^4 - 65 S^5 T^4 + 93 S^6 T^4 - 8 S^7 T^4 - \\
& 39 S^8 T^4 + 31 S^{10} T^4 - 21 T^5 - 30 S T^5 + 71 S^2 T^5 - 8 S^3 T^5 - 65 S^4 T^5 + 18 S^5 T^5 + 18 S^6 T^5 - \\
& 65 S^7 T^5 - 8 S^8 T^5 + 71 S^9 T^5 - 30 S^{10} T^5 - 21 S^{11} T^5 + 7 T^6 + 42 S T^6 - 27 S^2 T^6 - 74 S^3 T^6 + \\
& 93 S^4 T^6 + 18 S^5 T^6 - 60 S^6 T^6 + 18 S^7 T^6 + 93 S^8 T^6 - 74 S^9 T^6 - 27 S^{10} T^6 + 42 S^{11} T^6 + 7 S^{12} T^6 - \\
& 21 S T^7 - 30 S^2 T^7 + 71 S^3 T^7 - 8 S^4 T^7 - 65 S^5 T^7 + 18 S^6 T^7 + 18 S^7 T^7 - 65 S^8 T^7 - 8 S^9 T^7 + \\
& 71 S^{10} T^7 - 30 S^{11} T^7 - 21 S^{12} T^7 + 31 S^2 T^8 - 39 S^4 T^8 - 8 S^5 T^8 + 93 S^6 T^8 - 65 S^7 T^8 + 93 S^8 T^8 - \\
& 8 S^9 T^8 - 39 S^{10} T^8 + 31 S^{12} T^8 - 31 S^3 T^9 + 71 S^5 T^9 - 74 S^6 T^9 - 8 S^7 T^9 - 8 S^8 T^9 - 74 S^9 T^9 + \\
& 71 S^{10} T^9 - 31 S^{12} T^9 + 31 S^4 T^{10} - 30 S^5 T^{10} - 27 S^6 T^{10} + 71 S^7 T^{10} - 39 S^8 T^{10} + 71 S^9 T^{10} - \\
& 27 S^{10} T^{10} - 30 S^{11} T^{10} + 31 S^{12} T^{10} - 21 S^5 T^{11} + 42 S^6 T^{11} - 30 S^7 T^{11} - 30 S^{10} T^{11} + 42 S^{11} T^{11} - \\
& 21 S^{12} T^{11} + 7 S^6 T^{12} - 21 S^7 T^{12} + 31 S^8 T^{12} - 31 S^9 T^{12} + 31 S^{10} T^{12} - 21 S^{11} T^{12} + 7 S^{12} T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 16] \rightarrow -\frac{1}{S^4 T^4} 2 (32 - 92 S + 112 S^2 - 92 S^3 + 32 S^4 - 92 T + 172 S T - 58 S^2 T - 58 S^3 T +$$

$$\begin{aligned}
& 172 S^4 T - 92 S^5 T + 112 T^2 - 58 S T^2 - 277 S^2 T^2 + 344 S^3 T^2 - 277 S^4 T^2 - 58 S^5 T^2 + 112 S^6 T^2 - \\
& 92 T^3 - 58 S T^3 + 344 S^2 T^3 - 122 S^3 T^3 - 122 S^4 T^3 + 344 S^5 T^3 - 58 S^6 T^3 - 92 S^7 T^3 + 32 T^4 + \\
& 172 S T^4 - 277 S^2 T^4 - 122 S^3 T^4 + 234 S^4 T^4 - 122 S^5 T^4 - 277 S^6 T^4 + 172 S^7 T^4 + 32 S^8 T^4 - \\
& 92 S T^5 - 58 S^2 T^5 + 344 S^3 T^5 - 122 S^4 T^5 - 122 S^5 T^5 + 344 S^6 T^5 - 58 S^7 T^5 - 92 S^8 T^5 + 112 S^2 T^6 - \\
& 58 S^3 T^6 - 277 S^4 T^6 + 344 S^5 T^6 - 277 S^6 T^6 - 58 S^7 T^6 + 112 S^8 T^6 - 92 S^3 T^7 + 172 S^4 T^7 - \\
& 58 S^5 T^7 - 58 S^6 T^7 + 172 S^7 T^7 - 92 S^8 T^7 + 32 S^4 T^8 - 92 S^5 T^8 + 112 S^6 T^8 - 92 S^7 T^8 + 32 S^8 T^8),
\end{aligned}$$

$$\text{Knot}[10, 17] \rightarrow 0, \text{Knot}[10, 18] \rightarrow \frac{1}{S^4 T^4} (64 - 212 S + 280 S^2 - 212 S^3 + 64 S^4 - 212 T +$$

$$\begin{aligned}
& 494 S T - 232 S^2 T - 232 S^3 T + 494 S^4 T - 212 S^5 T + 280 T^2 - 232 S T^2 - 835 S^2 T^2 + \\
& 1301 S^3 T^2 - 835 S^4 T^2 - 232 S^5 T^2 + 280 S^6 T^2 - 212 T^3 - 232 S T^3 + 1301 S^2 T^3 - 632 S^3 T^3 - \\
& 632 S^4 T^3 + 1301 S^5 T^3 - 232 S^6 T^3 - 212 S^7 T^3 + 64 T^4 + 494 S T^4 - 835 S^2 T^4 - 632 S^3 T^4 + \\
& 1296 S^4 T^4 - 632 S^5 T^4 - 835 S^6 T^4 + 494 S^7 T^4 + 64 S^8 T^4 - 212 S T^5 - 232 S^2 T^5 + 1301 S^3 T^5 - \\
& 632 S^4 T^5 - 632 S^5 T^5 + 1301 S^6 T^5 - 232 S^7 T^5 - 212 S^8 T^5 + 280 S^2 T^6 - 232 S^3 T^6 - \\
& 835 S^4 T^6 + 1301 S^5 T^6 - 835 S^6 T^6 - 232 S^7 T^6 + 280 S^8 T^6 - 212 S^3 T^7 + 494 S^4 T^7 - 232 S^5 T^7 - \\
& 232 S^6 T^7 + 494 S^7 T^7 - 212 S^8 T^7 + 64 S^4 T^8 - 212 S^5 T^8 + 280 S^6 T^8 - 212 S^7 T^8 + 64 S^8 T^8),
\end{aligned}$$

$$\text{Knot}[10, 19] \rightarrow -\frac{1}{S^6 T^6} (7 - 25 S + 39 S^2 - 39 S^3 + 39 S^4 - 25 S^5 + 7 S^6 - 25 T + 64 S T - 50 S^2 T -$$

$$\begin{aligned}
& 50 S^5 T + 64 S^6 T - 25 S^7 T + 39 T^2 - 50 S T^2 - 66 S^2 T^2 + 162 S^3 T^2 - 100 S^4 T^2 + 162 S^5 T^2 - 66 S^6 T^2 - \\
& 50 S^7 T^2 + 39 S^8 T^2 - 39 T^3 + 162 S^2 T^3 - 164 S^3 T^3 - 22 S^4 T^3 - 22 S^5 T^3 - 164 S^6 T^3 + 162 S^7 T^3 - \\
& 39 S^9 T^3 + 39 T^4 - 100 S^2 T^4 - 22 S^3 T^4 + 231 S^4 T^4 - 151 S^5 T^4 + 231 S^6 T^4 - 22 S^7 T^4 - 100 S^8 T^4 +
\end{aligned}$$

$$\begin{aligned}
& 39 S^{10} T^4 - 25 T^5 - 50 S T^5 + 162 S^2 T^5 - 22 S^3 T^5 - 151 S^4 T^5 + 24 S^5 T^5 + 24 S^6 T^5 - 151 S^7 T^5 - \\
& 22 S^8 T^5 + 162 S^9 T^5 - 50 S^{10} T^5 - 25 S^{11} T^5 + 7 T^6 + 64 S T^6 - 66 S^2 T^6 - 164 S^3 T^6 + 231 S^4 T^6 + \\
& 24 S^5 T^6 - 84 S^6 T^6 + 24 S^7 T^6 + 231 S^8 T^6 - 164 S^9 T^6 - 66 S^{10} T^6 + 64 S^{11} T^6 + 7 S^{12} T^6 - 25 S T^7 - \\
& 50 S^2 T^7 + 162 S^3 T^7 - 22 S^4 T^7 - 151 S^5 T^7 + 24 S^6 T^7 + 24 S^7 T^7 - 151 S^8 T^7 - 22 S^9 T^7 + 162 S^{10} T^7 - \\
& 50 S^{11} T^7 - 25 S^{12} T^7 + 39 S^2 T^8 - 100 S^4 T^8 - 22 S^5 T^8 + 231 S^6 T^8 - 151 S^7 T^8 + 231 S^8 T^8 - 22 S^9 T^8 - \\
& 100 S^{10} T^8 + 39 S^{12} T^8 - 39 S^3 T^9 + 162 S^5 T^9 - 164 S^6 T^9 - 22 S^7 T^9 - 22 S^8 T^9 - 164 S^9 T^9 + \\
& 162 S^{10} T^9 - 39 S^{12} T^9 + 39 S^4 T^{10} - 50 S^5 T^{10} - 66 S^6 T^{10} + 162 S^7 T^{10} - 100 S^8 T^{10} + 162 S^9 T^{10} - \\
& 66 S^{10} T^{10} - 50 S^{11} T^{10} + 39 S^{12} T^{10} - 25 S^5 T^{11} + 64 S^6 T^{11} - 50 S^7 T^{11} - 50 S^{10} T^{11} + 64 S^{11} T^{11} - \\
& 25 S^{12} T^{11} + 7 S^6 T^{12} - 25 S^7 T^{12} + 39 S^8 T^{12} - 39 S^9 T^{12} + 39 S^{10} T^{12} - 25 S^{11} T^{12} + 7 S^{12} T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 20] \rightarrow \frac{1}{S^4 T^4} 2 (18 - 54 S + 65 S^2 - 54 S^3 + 18 S^4 - 54 T + 108 S T - 33 S^2 T - 33 S^3 T +$$

$$\begin{aligned}
& 108 S^4 T - 54 S^5 T + 65 T^2 - 33 S T^2 - 198 S^2 T^2 + 225 S^3 T^2 - 198 S^4 T^2 - 33 S^5 T^2 + 65 S^6 T^2 - \\
& 54 T^3 - 33 S T^3 + 225 S^2 T^3 - 54 S^3 T^3 - 54 S^4 T^3 + 225 S^5 T^3 - 33 S^6 T^3 - 54 S^7 T^3 + 18 T^4 + \\
& 108 S T^4 - 198 S^2 T^4 - 54 S^3 T^4 + 60 S^4 T^4 - 54 S^5 T^4 - 198 S^6 T^4 + 108 S^7 T^4 + 18 S^8 T^4 - \\
& 54 S T^5 - 33 S^2 T^5 + 225 S^3 T^5 - 54 S^4 T^5 - 54 S^5 T^5 + 225 S^6 T^5 - 33 S^7 T^5 - 54 S^8 T^5 + 65 S^2 T^6 - \\
& 33 S^3 T^6 - 198 S^4 T^6 + 225 S^5 T^6 - 198 S^6 T^6 - 33 S^7 T^6 + 65 S^8 T^6 - 54 S^3 T^7 + 108 S^4 T^7 - \\
& 33 S^5 T^7 - 33 S^6 T^7 + 108 S^7 T^7 - 54 S^8 T^7 + 18 S^4 T^8 - 54 S^5 T^8 + 65 S^6 T^8 - 54 S^7 T^8 + 18 S^8 T^8),
\end{aligned}$$

$$\text{Knot}[10, 21] \rightarrow \frac{1}{S^6 T^6} (17 - 59 S + 75 S^2 - 75 S^3 + 75 S^4 - 59 S^5 + 17 S^6 - 59 T + 146 S T -$$

$$\begin{aligned}
& 56 S^2 T - 56 S^5 T + 146 S^6 T - 59 S^7 T + 75 T^2 - 56 S T^2 - 305 S^2 T^2 + 331 S^3 T^2 - 267 S^4 T^2 + \\
& 331 S^5 T^2 - 305 S^6 T^2 - 56 S^7 T^2 + 75 S^8 T^2 - 75 T^3 + 331 S^2 T^3 - 58 S^3 T^3 - 44 S^4 T^3 - 44 S^5 T^3 - \\
& 58 S^6 T^3 + 331 S^7 T^3 - 75 S^9 T^3 + 75 T^4 - 267 S^2 T^4 - 44 S^3 T^4 - 37 S^4 T^4 + 137 S^5 T^4 - 37 S^6 T^4 - \\
& 44 S^7 T^4 - 267 S^8 T^4 + 75 S^{10} T^4 - 59 T^5 - 56 S T^5 + 331 S^2 T^5 - 44 S^3 T^5 + 137 S^4 T^5 - 74 S^5 T^5 - \\
& 74 S^6 T^5 + 137 S^7 T^5 - 44 S^8 T^5 + 331 S^9 T^5 - 56 S^{10} T^5 - 59 S^{11} T^5 + 17 T^6 + 146 S T^6 - \\
& 305 S^2 T^6 - 58 S^3 T^6 - 37 S^4 T^6 - 74 S^5 T^6 + 132 S^6 T^6 - 74 S^7 T^6 - 37 S^8 T^6 - 58 S^9 T^6 - \\
& 305 S^{10} T^6 + 146 S^{11} T^6 + 17 S^{12} T^6 - 59 S T^7 - 56 S^2 T^7 + 331 S^3 T^7 - 44 S^4 T^7 + 137 S^5 T^7 - \\
& 74 S^6 T^7 - 74 S^7 T^7 + 137 S^8 T^7 - 44 S^9 T^7 + 331 S^{10} T^7 - 56 S^{11} T^7 - 59 S^{12} T^7 + 75 S^2 T^8 - \\
& 267 S^4 T^8 - 44 S^5 T^8 - 37 S^6 T^8 + 137 S^7 T^8 - 37 S^8 T^8 - 44 S^9 T^8 - 267 S^{10} T^8 + 75 S^{12} T^8 - \\
& 75 S^3 T^9 + 331 S^5 T^9 - 58 S^6 T^9 - 44 S^7 T^9 - 44 S^8 T^9 - 58 S^9 T^9 + 331 S^{10} T^9 - 75 S^{12} T^9 + \\
& 75 S^4 T^{10} - 56 S^5 T^{10} - 305 S^6 T^{10} + 331 S^7 T^{10} - 267 S^8 T^{10} + 331 S^9 T^{10} - 305 S^{10} T^{10} - \\
& 56 S^{11} T^{10} + 75 S^{12} T^{10} - 59 S^5 T^{11} + 146 S^6 T^{11} - 56 S^7 T^{11} - 56 S^{10} T^{11} + 146 S^{11} T^{11} - \\
& 59 S^{12} T^{11} + 17 S^6 T^{12} - 59 S^7 T^{12} + 75 S^8 T^{12} - 75 S^9 T^{12} + 75 S^{10} T^{12} - 59 S^{11} T^{12} + 17 S^{12} T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 22] \rightarrow -\frac{1}{S^6 T^6} (1 - 3 S + 5 S^2 - 7 S^3 + 5 S^4 - 3 S^5 + S^6 - 3 T + 6 S T - 6 S^2 T + 6 S^3 T + 6 S^4 T -$$

$$\begin{aligned}
& 6 S^5 T + 6 S^6 T - 3 S^7 T + 5 T^2 - 6 S T^2 + 3 S^2 T^2 - 9 S^3 T^2 - 5 S^4 T^2 - 9 S^5 T^2 + 3 S^6 T^2 - 6 S^7 T^2 + 5 S^8 T^2 - \\
& 7 T^3 + 6 S T^3 - 9 S^2 T^3 + 30 S^3 T^3 + 4 S^4 T^3 + 4 S^5 T^3 + 30 S^6 T^3 - 9 S^7 T^3 + 6 S^8 T^3 - 7 S^9 T^3 + 5 T^4 + 6 S T^4 - \\
& 5 S^2 T^4 + 4 S^3 T^4 - 89 S^4 T^4 + 63 S^5 T^4 - 89 S^6 T^4 + 4 S^7 T^4 - 5 S^8 T^4 + 6 S^9 T^4 + 5 S^{10} T^4 - 3 T^5 - 6 S T^5 - \\
& 9 S^2 T^5 + 4 S^3 T^5 + 63 S^4 T^5 + 22 S^5 T^5 + 22 S^6 T^5 + 63 S^7 T^5 + 4 S^8 T^5 - 9 S^9 T^5 - 6 S^{10} T^5 - 3 S^{11} T^5 + \\
& T^6 + 6 S T^6 + 3 S^2 T^6 + 30 S^3 T^6 - 89 S^4 T^6 + 22 S^5 T^6 - 108 S^6 T^6 + 22 S^7 T^6 - 89 S^8 T^6 + 30 S^9 T^6 + \\
& 3 S^{10} T^6 + 6 S^{11} T^6 + S^{12} T^6 - 3 S T^7 - 6 S^2 T^7 - 9 S^3 T^7 + 4 S^4 T^7 + 63 S^5 T^7 + 22 S^6 T^7 + 22 S^7 T^7 + \\
& 63 S^8 T^7 + 4 S^9 T^7 - 9 S^{10} T^7 - 6 S^{11} T^7 - 3 S^{12} T^7 + 5 S^2 T^8 + 6 S^3 T^8 - 5 S^4 T^8 + 4 S^5 T^8 - 89 S^6 T^8 + \\
& 63 S^7 T^8 - 89 S^8 T^8 + 4 S^9 T^8 - 5 S^{10} T^8 + 6 S^{11} T^8 + 5 S^{12} T^8 - 7 S^3 T^9 + 6 S^4 T^9 - 9 S^5 T^9 + 30 S^6 T^9 + \\
& 4 S^7 T^9 + 4 S^8 T^9 + 30 S^9 T^9 - 9 S^{10} T^9 + 6 S^{11} T^9 - 7 S^{12} T^9 + 5 S^4 T^{10} - 6 S^5 T^{10} + 3 S^6 T^{10} - 9 S^7 T^{10} - \\
& 5 S^8 T^{10} - 9 S^9 T^{10} + 3 S^{10} T^{10} - 6 S^{11} T^{10} + 5 S^{12} T^{10} - 3 S^5 T^{11} + 6 S^6 T^{11} - 6 S^7 T^{11} + 6 S^8 T^{11} + 6 S^9 T^{11} - \\
& 6 S^{10} T^{11} + 6 S^{11} T^{11} - 3 S^{12} T^{11} + S^6 T^{12} - 3 S^7 T^{12} + 5 S^8 T^{12} - 7 S^9 T^{12} + 5 S^{10} T^{12} - 3 S^{11} T^{12} + S^{12} T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 23] \rightarrow \frac{1}{S^6 T^6} \left(9 - 31 S + 57 S^2 - 65 S^3 + 57 S^4 - 31 S^5 + 9 S^6 - 31 T + 76 S T - 90 S^2 T + \right. \\
28 S^3 T + 28 S^4 T - 90 S^5 T + 76 S^6 T - 31 S^7 T + 57 T^2 - 90 S T^2 + 50 S^2 T^2 + 86 S^3 T^2 - \\
86 S^4 T^2 + 86 S^5 T^2 + 50 S^6 T^2 - 90 S^7 T^2 + 57 S^8 T^2 - 65 T^3 + 28 S T^3 + 86 S^2 T^3 - 230 S^3 T^3 + \\
48 S^4 T^3 + 48 S^5 T^3 - 230 S^6 T^3 + 86 S^7 T^3 + 28 S^8 T^3 - 65 S^9 T^3 + 57 T^4 + 28 S T^4 - 86 S^2 T^4 + \\
48 S^3 T^4 + 362 S^4 T^4 - 398 S^5 T^4 + 362 S^6 T^4 + 48 S^7 T^4 - 86 S^8 T^4 + 28 S^9 T^4 + 57 S^{10} T^4 - \\
31 T^5 - 90 S T^5 + 86 S^2 T^5 + 48 S^3 T^5 - 398 S^4 T^5 + 122 S^5 T^5 + 122 S^6 T^5 - 398 S^7 T^5 + 48 S^8 T^5 + \\
86 S^9 T^5 - 90 S^{10} T^5 - 31 S^{11} T^5 + 9 T^6 + 76 S T^6 + 50 S^2 T^6 - 230 S^3 T^6 + 362 S^4 T^6 + 122 S^5 T^6 - \\
216 S^6 T^6 + 122 S^7 T^6 + 362 S^8 T^6 - 230 S^9 T^6 + 50 S^{10} T^6 + 76 S^{11} T^6 + 9 S^{12} T^6 - 31 S T^7 - \\
90 S^2 T^7 + 86 S^3 T^7 + 48 S^4 T^7 - 398 S^5 T^7 + 122 S^6 T^7 + 122 S^7 T^7 - 398 S^8 T^7 + 48 S^9 T^7 + \\
86 S^{10} T^7 - 90 S^{11} T^7 - 31 S^{12} T^7 + 57 S^2 T^8 + 28 S^3 T^8 - 86 S^4 T^8 + 48 S^5 T^8 + 362 S^6 T^8 - \\
398 S^7 T^8 + 362 S^8 T^8 + 48 S^9 T^8 - 86 S^{10} T^8 + 28 S^{11} T^8 + 57 S^{12} T^8 - 65 S^3 T^9 + 28 S^4 T^9 + \\
86 S^5 T^9 - 230 S^6 T^9 + 48 S^7 T^9 + 48 S^8 T^9 - 230 S^9 T^9 + 86 S^{10} T^9 + 28 S^{11} T^9 - 65 S^{12} T^9 + \\
57 S^4 T^{10} - 90 S^5 T^{10} + 50 S^6 T^{10} + 86 S^7 T^{10} - 86 S^8 T^{10} + 86 S^9 T^{10} + 50 S^{10} T^{10} - 90 S^{11} T^{10} + \\
57 S^{12} T^{10} - 31 S^5 T^{11} + 76 S^6 T^{11} - 90 S^7 T^{11} + 28 S^8 T^{11} + 28 S^9 T^{11} - 90 S^{10} T^{11} + 76 S^{11} T^{11} - \\
31 S^{12} T^{11} + 9 S^6 T^{12} - 31 S^7 T^{12} + 57 S^8 T^{12} - 65 S^9 T^{12} + 57 S^{10} T^{12} - 31 S^{11} T^{12} + 9 S^{12} T^{12} \Big),$$

$$\text{Knot}[10, 24] \rightarrow \frac{1}{S^4 T^4} \left(80 - 276 S + 368 S^2 - 276 S^3 + 80 S^4 - 276 T + 678 S T - 320 S^2 T - \right. \\
320 S^3 T + 678 S^4 T - 276 S^5 T + 368 T^2 - 320 S T^2 - 1249 S^2 T^2 + 1925 S^3 T^2 - 1249 S^4 T^2 - \\
320 S^5 T^2 + 368 S^6 T^2 - 276 T^3 - 320 S T^3 + 1925 S^2 T^3 - 916 S^3 T^3 - 916 S^4 T^3 + 1925 S^5 T^3 - \\
320 S^6 T^3 - 276 S^7 T^3 + 80 T^4 + 678 S T^4 - 1249 S^2 T^4 - 916 S^3 T^4 + 1836 S^4 T^4 - 916 S^5 T^4 - \\
1249 S^6 T^4 + 678 S^7 T^4 + 80 S^8 T^4 - 276 S T^5 - 320 S^2 T^5 + 1925 S^3 T^5 - 916 S^4 T^5 - \\
916 S^5 T^5 + 1925 S^6 T^5 - 320 S^7 T^5 - 276 S^8 T^5 + 368 S^2 T^6 - 320 S^3 T^6 - 1249 S^4 T^6 + \\
1925 S^5 T^6 - 1249 S^6 T^6 - 320 S^7 T^6 + 368 S^8 T^6 - 276 S^3 T^7 + 678 S^4 T^7 - 320 S^5 T^7 - \\
320 S^6 T^7 + 678 S^7 T^7 - 276 S^8 T^7 + 80 S^4 T^8 - 276 S^5 T^8 + 368 S^6 T^8 - 276 S^7 T^8 + 80 S^8 T^8 \Big),$$

$$\text{Knot}[10, 25] \rightarrow \frac{1}{S^6 T^6} \left(17 - 67 S + 115 S^2 - 139 S^3 + 115 S^4 - 67 S^5 + 17 S^6 - 67 T + 198 S T - \right. \\
192 S^2 T + 96 S^3 T + 96 S^4 T - 192 S^5 T + 198 S^6 T - 67 S^7 T + 115 T^2 - 192 S T^2 - 150 S^2 T^2 + \\
434 S^3 T^2 - 658 S^4 T^2 + 434 S^5 T^2 - 150 S^6 T^2 - 192 S^7 T^2 + 115 S^8 T^2 - 139 T^3 + 96 S T^3 + \\
434 S^2 T^3 - 414 S^3 T^3 + 296 S^4 T^3 + 296 S^5 T^3 - 414 S^6 T^3 + 434 S^7 T^3 + 96 S^8 T^3 - 139 S^9 T^3 + \\
115 T^4 + 96 S T^4 - 658 S^2 T^4 + 296 S^3 T^4 - 205 S^4 T^4 - 197 S^5 T^4 - 205 S^6 T^4 + 296 S^7 T^4 - \\
658 S^8 T^4 + 96 S^9 T^4 + 115 S^{10} T^4 - 67 T^5 - 192 S T^5 + 434 S^2 T^5 + 296 S^3 T^5 - 197 S^4 T^5 + \\
328 S^5 T^5 + 328 S^6 T^5 - 197 S^7 T^5 + 296 S^8 T^5 + 434 S^9 T^5 - 192 S^{10} T^5 - 67 S^{11} T^5 + 17 T^6 + \\
198 S T^6 - 150 S^2 T^6 - 414 S^3 T^6 - 205 S^4 T^6 + 328 S^5 T^6 - 864 S^6 T^6 + 328 S^7 T^6 - 205 S^8 T^6 - \\
414 S^9 T^6 - 150 S^{10} T^6 + 198 S^{11} T^6 + 17 S^{12} T^6 - 67 S T^7 - 192 S^2 T^7 + 434 S^3 T^7 + 296 S^4 T^7 - \\
197 S^5 T^7 + 328 S^6 T^7 + 328 S^7 T^7 - 197 S^8 T^7 + 296 S^9 T^7 + 434 S^{10} T^7 - 192 S^{11} T^7 - 67 S^{12} T^7 + \\
115 S^2 T^8 + 96 S^3 T^8 - 658 S^4 T^8 + 296 S^5 T^8 - 205 S^6 T^8 - 197 S^7 T^8 - 205 S^8 T^8 + 296 S^9 T^8 - \\
658 S^{10} T^8 + 96 S^{11} T^8 + 115 S^{12} T^8 - 139 S^3 T^9 + 96 S^4 T^9 + 434 S^5 T^9 - 414 S^6 T^9 + 296 S^7 T^9 + \\
296 S^8 T^9 - 414 S^9 T^9 + 434 S^{10} T^9 + 96 S^{11} T^9 - 139 S^{12} T^9 + 115 S^4 T^{10} - 192 S^5 T^{10} - 150 S^6 T^{10} + \\
434 S^7 T^{10} - 658 S^8 T^{10} + 434 S^9 T^{10} - 150 S^{10} T^{10} - 192 S^{11} T^{10} + 115 S^{12} T^{10} - 67 S^5 T^{11} + \\
198 S^6 T^{11} - 192 S^7 T^{11} + 96 S^8 T^{11} + 96 S^9 T^{11} - 192 S^{10} T^{11} + 198 S^{11} T^{11} - 67 S^{12} T^{11} + \\
17 S^6 T^{12} - 67 S^7 T^{12} + 115 S^8 T^{12} - 139 S^9 T^{12} + 115 S^{10} T^{12} - 67 S^{11} T^{12} + 17 S^{12} T^{12} \Big),$$

$$\text{Knot}[10, 26] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 3 S + 5 S^2 - 7 S^3 + 5 S^4 - 3 S^5 + S^6 - 3 T + 6 S T - 6 S^2 T + 6 S^3 T + \right. \\
6 S^4 T - 6 S^5 T + 6 S^6 T - 3 S^7 T + 5 T^2 - 6 S T^2 + 3 S^2 T^2 - 13 S^3 T^2 + 3 S^4 T^2 - 13 S^5 T^2 + 3 S^6 T^2 - \\
6 S^7 T^2 + 5 S^8 T^2 - 7 T^3 + 6 S T^3 - 13 S^2 T^3 + 52 S^3 T^3 - 12 S^4 T^3 - 12 S^5 T^3 + 52 S^6 T^3 - 13 S^7 T^3 +$$

$$\begin{aligned}
& 6 S^8 T^3 - 7 S^9 T^3 + 5 T^4 + 6 S T^4 + 3 S^2 T^4 - 12 S^3 T^4 - 137 S^4 T^4 + 155 S^5 T^4 - 137 S^6 T^4 - 12 S^7 T^4 + \\
& 3 S^8 T^4 + 6 S^9 T^4 + 5 S^{10} T^4 - 3 T^5 - 6 S T^5 - 13 S^2 T^5 - 12 S^3 T^5 + 155 S^4 T^5 - 28 S^5 T^5 - 28 S^6 T^5 + \\
& 155 S^7 T^5 - 12 S^8 T^5 - 13 S^9 T^5 - 6 S^{10} T^5 - 3 S^{11} T^5 + T^6 + 6 S T^6 + 3 S^2 T^6 + 52 S^3 T^6 - 137 S^4 T^6 - \\
& 28 S^5 T^6 - 12 S^6 T^6 - 28 S^7 T^6 - 137 S^8 T^6 + 52 S^9 T^6 + 3 S^{10} T^6 + 6 S^{11} T^6 + S^{12} T^6 - 3 S T^7 - 6 S^2 T^7 - \\
& 13 S^3 T^7 - 12 S^4 T^7 + 155 S^5 T^7 - 28 S^6 T^7 - 28 S^7 T^7 + 155 S^8 T^7 - 12 S^9 T^7 - 13 S^{10} T^7 - 6 S^{11} T^7 - \\
& 3 S^{12} T^7 + 5 S^2 T^8 + 6 S^3 T^8 + 3 S^4 T^8 - 12 S^5 T^8 - 137 S^6 T^8 + 155 S^7 T^8 - 137 S^8 T^8 - 12 S^9 T^8 + \\
& 3 S^{10} T^8 + 6 S^{11} T^8 + 5 S^{12} T^8 - 7 S^3 T^9 + 6 S^4 T^9 - 13 S^5 T^9 + 52 S^6 T^9 - 12 S^7 T^9 - 12 S^8 T^9 + 52 S^9 T^9 - \\
& 13 S^{10} T^9 + 6 S^{11} T^9 - 7 S^{12} T^9 + 5 S^4 T^{10} - 6 S^5 T^{10} + 3 S^6 T^{10} - 13 S^7 T^{10} + 3 S^8 T^{10} - 13 S^9 T^{10} + \\
& 3 S^{10} T^{10} - 6 S^{11} T^{10} + 5 S^{12} T^{10} - 3 S^5 T^{11} + 6 S^6 T^{11} - 6 S^7 T^{11} + 6 S^8 T^{11} + 6 S^9 T^{11} - 6 S^{10} T^{11} + \\
& 6 S^{11} T^{11} - 3 S^{12} T^{11} + S^6 T^{12} - 3 S^7 T^{12} + 5 S^8 T^{12} - 7 S^9 T^{12} + 5 S^{10} T^{12} - 3 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[10, 27] \rightarrow -\frac{1}{S^6 T^6} \left(9 - 35 S + 69 S^2 - 81 S^3 + 69 S^4 - 35 S^5 + 9 S^6 - 35 T + 102 S T - 134 S^2 T + \right.$$

$$\begin{aligned}
& 48 S^3 T + 48 S^4 T - 134 S^5 T + 102 S^6 T - 35 S^7 T + 69 T^2 - 134 S T^2 + 66 S^2 T^2 + 180 S^3 T^2 - \\
& 214 S^4 T^2 + 180 S^5 T^2 + 66 S^6 T^2 - 134 S^7 T^2 + 69 S^8 T^2 - 81 T^3 + 48 S T^3 + 180 S^2 T^3 - 448 S^3 T^3 + \\
& 118 S^4 T^3 + 118 S^5 T^3 - 448 S^6 T^3 + 180 S^7 T^3 + 48 S^8 T^3 - 81 S^9 T^3 + 69 T^4 + 48 S T^4 - 214 S^2 T^4 + \\
& 118 S^3 T^4 + 678 S^4 T^4 - 754 S^5 T^4 + 678 S^6 T^4 + 118 S^7 T^4 - 214 S^8 T^4 + 48 S^9 T^4 + 69 S^{10} T^4 - 35 T^5 - \\
& 134 S T^5 + 180 S^2 T^5 + 118 S^3 T^5 - 754 S^4 T^5 + 188 S^5 T^5 + 188 S^6 T^5 - 754 S^7 T^5 + 118 S^8 T^5 + \\
& 180 S^9 T^5 - 134 S^{10} T^5 - 35 S^{11} T^5 + 9 T^6 + 102 S T^6 + 66 S^2 T^6 - 448 S^3 T^6 + 678 S^4 T^6 + 188 S^5 T^6 - \\
& 228 S^6 T^6 + 188 S^7 T^6 + 678 S^8 T^6 - 448 S^9 T^6 + 66 S^{10} T^6 + 102 S^{11} T^6 + 9 S^{12} T^6 - 35 S T^7 - \\
& 134 S^2 T^7 + 180 S^3 T^7 + 118 S^4 T^7 - 754 S^5 T^7 + 188 S^6 T^7 + 188 S^7 T^7 - 754 S^8 T^7 + 118 S^9 T^7 + \\
& 180 S^{10} T^7 - 134 S^{11} T^7 - 35 S^{12} T^7 + 69 S^2 T^8 + 48 S^3 T^8 - 214 S^4 T^8 + 118 S^5 T^8 + 678 S^6 T^8 - \\
& 754 S^7 T^8 + 678 S^8 T^8 + 118 S^9 T^8 - 214 S^{10} T^8 + 48 S^{11} T^8 + 69 S^{12} T^8 - 81 S^3 T^9 + 48 S^4 T^9 + \\
& 180 S^5 T^9 - 448 S^6 T^9 + 118 S^7 T^9 + 118 S^8 T^9 - 448 S^9 T^9 + 180 S^{10} T^9 + 48 S^{11} T^9 - 81 S^{12} T^9 + \\
& 69 S^4 T^{10} - 134 S^5 T^{10} + 66 S^6 T^{10} + 180 S^7 T^{10} - 214 S^8 T^{10} + 180 S^9 T^{10} + 66 S^{10} T^{10} - 134 S^{11} T^{10} + \\
& 69 S^{12} T^{10} - 35 S^5 T^{11} + 102 S^6 T^{11} - 134 S^7 T^{11} + 48 S^8 T^{11} + 48 S^9 T^{11} - 134 S^{10} T^{11} + 102 S^{11} T^{11} - \\
& 35 S^{12} T^{11} + 9 S^6 T^{12} - 35 S^7 T^{12} + 69 S^8 T^{12} - 81 S^9 T^{12} + 69 S^{10} T^{12} - 35 S^{11} T^{12} + 9 S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[10, 28] \rightarrow \frac{1}{S^4 T^4} 2 \left(8 - 26 S + 40 S^2 - 26 S^3 + 8 S^4 - 26 T + 59 S T - 46 S^2 T - 46 S^3 T + \right.$$

$$\begin{aligned}
& 59 S^4 T - 26 S^5 T + 40 T^2 - 46 S T^2 - 7 S^2 T^2 + 116 S^3 T^2 - 7 S^4 T^2 - 46 S^5 T^2 + 40 S^6 T^2 - \\
& 26 T^3 - 46 S T^3 + 116 S^2 T^3 - 137 S^3 T^3 - 137 S^4 T^3 + 116 S^5 T^3 - 46 S^6 T^3 - 26 S^7 T^3 + \\
& 8 T^4 + 59 S T^4 - 7 S^2 T^4 - 137 S^3 T^4 + 390 S^4 T^4 - 137 S^5 T^4 - 7 S^6 T^4 + 59 S^7 T^4 + 8 S^8 T^4 - \\
& 26 S T^5 - 46 S^2 T^5 + 116 S^3 T^5 - 137 S^4 T^5 - 137 S^5 T^5 + 116 S^6 T^5 - 46 S^7 T^5 - 26 S^8 T^5 + \\
& 40 S^2 T^6 - 46 S^3 T^6 - 7 S^4 T^6 + 116 S^5 T^6 - 7 S^6 T^6 - 46 S^7 T^6 + 40 S^8 T^6 - 26 S^3 T^7 + 59 S^4 T^7 - \\
& 46 S^5 T^7 - 46 S^6 T^7 + 59 S^7 T^7 - 26 S^8 T^7 + 8 S^4 T^8 - 26 S^5 T^8 + 40 S^6 T^8 - 26 S^7 T^8 + 8 S^8 T^8 \Big),
\end{aligned}$$

$$\text{Knot}[10, 29] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 7 S + 15 S^2 - 17 S^3 + 15 S^4 - 7 S^5 + S^6 - 7 T + 42 S T - 56 S^2 T + 14 S^3 T + \right.$$

$$\begin{aligned}
& 14 S^4 T - 56 S^5 T + 42 S^6 T - 7 S^7 T + 15 T^2 - 56 S T^2 - 103 S^2 T^2 + 375 S^3 T^2 - 385 S^4 T^2 + 375 S^5 T^2 - \\
& 103 S^6 T^2 - 56 S^7 T^2 + 15 S^8 T^2 - 17 T^3 + 14 S T^3 + 375 S^2 T^3 - 586 S^3 T^3 + 104 S^4 T^3 + 104 S^5 T^3 - \\
& 586 S^6 T^3 + 375 S^7 T^3 + 14 S^8 T^3 - 17 S^9 T^3 + 15 T^4 + 14 S T^4 - 385 S^2 T^4 + 104 S^3 T^4 + 868 S^4 T^4 - \\
& 848 S^5 T^4 + 868 S^6 T^4 + 104 S^7 T^4 - 385 S^8 T^4 + 14 S^9 T^4 + 15 S^{10} T^4 - 7 T^5 - 56 S T^5 + 375 S^2 T^5 + \\
& 104 S^3 T^5 - 848 S^4 T^5 + 192 S^5 T^5 + 192 S^6 T^5 - 848 S^7 T^5 + 104 S^8 T^5 + 375 S^9 T^5 - 56 S^{10} T^5 - 7 S^{11} T^5 + \\
& T^6 + 42 S T^6 - 103 S^2 T^6 - 586 S^3 T^6 + 868 S^4 T^6 + 192 S^5 T^6 - 324 S^6 T^6 + 192 S^7 T^6 + 868 S^8 T^6 - \\
& 586 S^9 T^6 - 103 S^{10} T^6 + 42 S^{11} T^6 + S^{12} T^6 - 7 S T^7 - 56 S^2 T^7 + 375 S^3 T^7 + 104 S^4 T^7 - 848 S^5 T^7 + \\
& 192 S^6 T^7 + 192 S^7 T^7 - 848 S^8 T^7 + 104 S^9 T^7 + 375 S^{10} T^7 - 56 S^{11} T^7 - 7 S^{12} T^7 + 15 S^2 T^8 + 14 S^3 T^8 - \\
& 385 S^4 T^8 + 104 S^5 T^8 + 868 S^6 T^8 - 848 S^7 T^8 + 868 S^8 T^8 + 104 S^9 T^8 - 385 S^{10} T^8 + 14 S^{11} T^8 + 15 S^{12} T^8 - \\
& 17 S^3 T^9 + 14 S^4 T^9 + 375 S^5 T^9 - 586 S^6 T^9 + 104 S^7 T^9 + 104 S^8 T^9 - 586 S^9 T^9 + 375 S^{10} T^9 + 14 S^{11} T^9 -
\end{aligned}$$

$$17 S^{12} T^9 + 15 S^4 T^{10} - 56 S^5 T^{10} - 103 S^6 T^{10} + 375 S^7 T^{10} - 385 S^8 T^{10} + 375 S^9 T^{10} - 103 S^{10} T^{10} - \\ 56 S^{11} T^{10} + 15 S^{12} T^{10} - 7 S^5 T^{11} + 42 S^6 T^{11} - 56 S^7 T^{11} + 14 S^8 T^{11} + 14 S^9 T^{11} - 56 S^{10} T^{11} + \\ 42 S^{11} T^{11} - 7 S^{12} T^{11} + S^6 T^{12} - 7 S^7 T^{12} + 15 S^8 T^{12} - 17 S^9 T^{12} + 15 S^{10} T^{12} - 7 S^{11} T^{12} + S^{12} T^{12}),$$

$$\text{Knot}[10, 30] \rightarrow \frac{1}{S^4 T^4} (80 - 332 S + 480 S^2 - 332 S^3 + 80 S^4 - 332 T + 1050 S T - 620 S^2 T - \\ 620 S^3 T + 1050 S^4 T - 332 S^5 T + 480 T^2 - 620 S T^2 - 2337 S^2 T^2 + 4289 S^3 T^2 - 2337 S^4 T^2 - \\ 620 S^5 T^2 + 480 S^6 T^2 - 332 T^3 - 620 S T^3 + 4289 S^2 T^3 - 2698 S^3 T^3 - 2698 S^4 T^3 + 4289 S^5 T^3 - \\ 620 S^6 T^3 - 332 S^7 T^3 + 80 T^4 + 1050 S T^4 - 2337 S^2 T^4 - 2698 S^3 T^4 + 6240 S^4 T^4 - 2698 S^5 T^4 - \\ 2337 S^6 T^4 + 1050 S^7 T^4 + 80 S^8 T^4 - 332 S T^5 - 620 S^2 T^5 + 4289 S^3 T^5 - 2698 S^4 T^5 - \\ 2698 S^5 T^5 + 4289 S^6 T^5 - 620 S^7 T^5 - 332 S^8 T^5 + 480 S^2 T^6 - 620 S^3 T^6 - 2337 S^4 T^6 + \\ 4289 S^5 T^6 - 2337 S^6 T^6 - 620 S^7 T^6 + 480 S^8 T^6 - 332 S^3 T^7 + 1050 S^4 T^7 - 620 S^5 T^7 - \\ 620 S^6 T^7 + 1050 S^7 T^7 - 332 S^8 T^7 + 80 S^4 T^8 - 332 S^5 T^8 + 480 S^6 T^8 - 332 S^7 T^8 + 80 S^8 T^8),$$

$$\text{Knot}[10, 31] \rightarrow \frac{1}{S^4 T^4} (4 S - 8 S^2 + 4 S^3 + 4 T - 22 S T + 20 S^2 T + 20 S^3 T - 22 S^4 T + 4 S^5 T - \\ 8 T^2 + 20 S T^2 + 45 S^2 T^2 - 131 S^3 T^2 + 45 S^4 T^2 + 20 S^5 T^2 - 8 S^6 T^2 + 4 T^3 + 20 S T^3 - 131 S^2 T^3 + \\ 124 S^3 T^3 + 124 S^4 T^3 - 131 S^5 T^3 + 20 S^6 T^3 + 4 S^7 T^3 - 22 S T^4 + 45 S^2 T^4 + 124 S^3 T^4 - 336 S^4 T^4 + \\ 124 S^5 T^4 + 45 S^6 T^4 - 22 S^7 T^4 + 4 S T^5 + 20 S^2 T^5 - 131 S^3 T^5 + 124 S^4 T^5 + 124 S^5 T^5 - 131 S^6 T^5 + \\ 20 S^7 T^5 + 4 S^8 T^5 - 8 S^2 T^6 + 20 S^3 T^6 + 45 S^4 T^6 - 131 S^5 T^6 + 45 S^6 T^6 + 20 S^7 T^6 - 8 S^8 T^6 + \\ 4 S^3 T^7 - 22 S^4 T^7 + 20 S^5 T^7 + 20 S^6 T^7 - 22 S^7 T^7 + 4 S^8 T^7 + 4 S^5 T^8 - 8 S^6 T^8 + 4 S^7 T^8),$$

$$\text{Knot}[10, 32] \rightarrow \frac{1}{S^6 T^6} (1 - 3 S + 5 S^2 - 7 S^3 + 5 S^4 - 3 S^5 + S^6 - 3 T + 6 S T - 6 S^2 T + 6 S^3 T + \\ 6 S^4 T - 6 S^5 T + 6 S^6 T - 3 S^7 T + 5 T^2 - 6 S T^2 + 8 S^2 T^2 - 28 S^3 T^2 + 20 S^4 T^2 - 28 S^5 T^2 + \\ 8 S^6 T^2 - 6 S^7 T^2 + 5 S^8 T^2 - 7 T^3 + 6 S T^3 - 28 S^2 T^3 + 90 S^3 T^3 - 26 S^4 T^3 - 26 S^5 T^3 + 90 S^6 T^3 - \\ 28 S^7 T^3 + 6 S^8 T^3 - 7 S^9 T^3 + 5 T^4 + 6 S T^4 + 20 S^2 T^4 - 26 S^3 T^4 - 247 S^4 T^4 + 313 S^5 T^4 - \\ 247 S^6 T^4 - 26 S^7 T^4 + 20 S^8 T^4 + 6 S^9 T^4 + 5 S^{10} T^4 - 3 T^5 - 6 S T^5 - 28 S^2 T^5 - 26 S^3 T^5 + \\ 313 S^4 T^5 - 104 S^5 T^5 - 104 S^6 T^5 + 313 S^7 T^5 - 26 S^8 T^5 - 28 S^9 T^5 - 6 S^{10} T^5 - 3 S^{11} T^5 + \\ T^6 + 6 S T^6 + 8 S^2 T^6 + 90 S^3 T^6 - 247 S^4 T^6 - 104 S^5 T^6 + 144 S^6 T^6 - 104 S^7 T^6 - 247 S^8 T^6 + \\ 90 S^9 T^6 + 8 S^{10} T^6 + 6 S^{11} T^6 + S^{12} T^6 - 3 S T^7 - 6 S^2 T^7 - 28 S^3 T^7 - 26 S^4 T^7 + 313 S^5 T^7 - \\ 104 S^6 T^7 - 104 S^7 T^7 + 313 S^8 T^7 - 26 S^9 T^7 - 28 S^{10} T^7 - 6 S^{11} T^7 - 3 S^{12} T^7 + 5 S^2 T^8 + \\ 6 S^3 T^8 + 20 S^4 T^8 - 26 S^5 T^8 - 247 S^6 T^8 + 313 S^7 T^8 - 247 S^8 T^8 - 26 S^9 T^8 + 20 S^{10} T^8 + \\ 6 S^{11} T^8 + 5 S^{12} T^8 - 7 S^3 T^9 + 6 S^4 T^9 - 28 S^5 T^9 + 90 S^6 T^9 - 26 S^7 T^9 - 26 S^8 T^9 + 90 S^9 T^9 - \\ 28 S^{10} T^9 + 6 S^{11} T^9 - 7 S^{12} T^9 + 5 S^4 T^{10} - 6 S^5 T^{10} + 8 S^6 T^{10} - 28 S^7 T^{10} + 20 S^8 T^{10} - 28 S^9 T^{10} + \\ 8 S^{10} T^{10} - 6 S^{11} T^{10} + 5 S^{12} T^{10} - 3 S^5 T^{11} + 6 S^6 T^{11} - 6 S^7 T^{11} + 6 S^8 T^{11} + 6 S^9 T^{11} - 6 S^{10} T^{11} + \\ 6 S^{11} T^{11} - 3 S^{12} T^{11} + S^6 T^{12} - 3 S^7 T^{12} + 5 S^8 T^{12} - 7 S^9 T^{12} + 5 S^{10} T^{12} - 3 S^{11} T^{12} + S^{12} T^{12}),$$

$$\text{Knot}[10, 33] \rightarrow 0, \text{Knot}[10, 34] \rightarrow \frac{1}{S^4 T^4} (9 - 27 S + 41 S^2 - 27 S^3 + 9 S^4 - 27 T + 54 S T - \\ 42 S^2 T - 42 S^3 T + 54 S^4 T - 27 S^5 T + 41 T^2 - 42 S T^2 + 9 S^2 T^2 + 81 S^3 T^2 + 9 S^4 T^2 - 42 S^5 T^2 + \\ 41 S^6 T^2 - 27 T^3 - 42 S T^3 + 81 S^2 T^3 - 108 S^3 T^3 - 108 S^4 T^3 + 81 S^5 T^3 - 42 S^6 T^3 - 27 S^7 T^3 + \\ 9 T^4 + 54 S T^4 + 9 S^2 T^4 - 108 S^3 T^4 + 312 S^4 T^4 - 108 S^5 T^4 + 9 S^6 T^4 + 54 S^7 T^4 + 9 S^8 T^4 - \\ 27 S T^5 - 42 S^2 T^5 + 81 S^3 T^5 - 108 S^4 T^5 - 108 S^5 T^5 + 81 S^6 T^5 - 42 S^7 T^5 - 27 S^8 T^5 + \\ 41 S^2 T^6 - 42 S^3 T^6 + 9 S^4 T^6 + 81 S^5 T^6 + 9 S^6 T^6 - 42 S^7 T^6 + 41 S^8 T^6 - 27 S^3 T^7 + 54 S^4 T^7 - \\ 42 S^5 T^7 - 42 S^6 T^7 + 54 S^7 T^7 - 27 S^8 T^7 + 9 S^4 T^8 - 27 S^5 T^8 + 41 S^6 T^8 - 27 S^7 T^8 + 9 S^8 T^8),$$

$$\text{Knot}[10, 35] \rightarrow \frac{1}{S^4 T^4} (1 - 7 S + 13 S^2 - 7 S^3 + S^4 - 7 T + 42 S T - 42 S^2 T - 42 S^3 T + 42 S^4 T - \\ 7 S^5 T + 13 T^2 - 42 S T^2 - 148 S^2 T^2 + 426 S^3 T^2 - 148 S^4 T^2 - 42 S^5 T^2 + 13 S^6 T^2 - 7 T^3 -$$

$$\begin{aligned}
& 42 S T^3 + 426 S^2 T^3 - 468 S^3 T^3 - 468 S^4 T^3 + 426 S^5 T^3 - 42 S^6 T^3 - 7 S^7 T^3 + T^4 + 42 S T^4 - \\
& 148 S^2 T^4 - 468 S^3 T^4 + 1392 S^4 T^4 - 468 S^5 T^4 - 148 S^6 T^4 + 42 S^7 T^4 + S^8 T^4 - 7 S T^5 - \\
& 42 S^2 T^5 + 426 S^3 T^5 - 468 S^4 T^5 - 468 S^5 T^5 + 426 S^6 T^5 - 42 S^7 T^5 - 7 S^8 T^5 + 13 S^2 T^6 - \\
& 42 S^3 T^6 - 148 S^4 T^6 + 426 S^5 T^6 - 148 S^6 T^6 - 42 S^7 T^6 + 13 S^8 T^6 - 7 S^3 T^7 + 42 S^4 T^7 - \\
& 42 S^5 T^7 - 42 S^6 T^7 + 42 S^7 T^7 - 7 S^8 T^7 + S^4 T^8 - 7 S^5 T^8 + 13 S^6 T^8 - 7 S^7 T^8 + S^8 T^8),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 36] \rightarrow \frac{1}{S^4 T^4} 2 \left(18 - 76 S + 109 S^2 - 76 S^3 + 18 S^4 - 76 T + 246 S T - 141 S^2 T - 141 S^3 T + 246 S^4 T - \right. \\
76 S^5 T + 109 T^2 - 141 S T^2 - 584 S^2 T^2 + 1033 S^3 T^2 - 584 S^4 T^2 - 141 S^5 T^2 + 109 S^6 T^2 - 76 T^3 - \\
141 S T^3 + 1033 S^2 T^3 - 624 S^3 T^3 - 624 S^4 T^3 + 1033 S^5 T^3 - 141 S^6 T^3 - 76 S^7 T^3 + 18 T^4 + 246 S T^4 - \\
584 S^2 T^4 - 624 S^3 T^4 + 1416 S^4 T^4 - 624 S^5 T^4 - 584 S^6 T^4 + 246 S^7 T^4 + 18 S^8 T^4 - 76 S T^5 - 141 S^2 T^5 + \\
1033 S^3 T^5 - 624 S^4 T^5 - 624 S^5 T^5 + 1033 S^6 T^5 - 141 S^7 T^5 - 76 S^8 T^5 + 109 S^2 T^6 - 141 S^3 T^6 - \\
584 S^4 T^6 + 1033 S^5 T^6 - 584 S^6 T^6 - 141 S^7 T^6 + 109 S^8 T^6 - 76 S^3 T^7 + 246 S^4 T^7 - 141 S^5 T^7 - 141 S^6 T^7 + \\
246 S^7 T^7 - 76 S^8 T^7 + 18 S^4 T^8 - 76 S^5 T^8 + 109 S^6 T^8 - 76 S^7 T^8 + 18 S^8 T^8 \left. \right), \text{Knot}[10, 37] \rightarrow 0,
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 38] \rightarrow \frac{1}{S^4 T^4} 2 \left(40 - 148 S + 204 S^2 - 148 S^3 + 40 S^4 - 148 T + 402 S T - 210 S^2 T - 210 S^3 T + \right. \\
402 S^4 T - 148 S^5 T + 204 T^2 - 210 S T^2 - 796 S^2 T^2 + 1329 S^3 T^2 - 796 S^4 T^2 - 210 S^5 T^2 + 204 S^6 T^2 - \\
148 T^3 - 210 S T^3 + 1329 S^2 T^3 - 720 S^3 T^3 - 720 S^4 T^3 + 1329 S^5 T^3 - 210 S^6 T^3 - 148 S^7 T^3 + 40 T^4 + \\
402 S T^4 - 796 S^2 T^4 - 720 S^3 T^4 + 1542 S^4 T^4 - 720 S^5 T^4 - 796 S^6 T^4 + 402 S^7 T^4 + 40 S^8 T^4 - 148 S T^5 - \\
210 S^2 T^5 + 1329 S^3 T^5 - 720 S^4 T^5 - 720 S^5 T^5 + 1329 S^6 T^5 - 210 S^7 T^5 - 148 S^8 T^5 + 204 S^2 T^6 - \\
210 S^3 T^6 - 796 S^4 T^6 + 1329 S^5 T^6 - 796 S^6 T^6 - 210 S^7 T^6 + 204 S^8 T^6 - 148 S^3 T^7 + 402 S^4 T^7 - \\
210 S^5 T^7 - 210 S^6 T^7 + 402 S^7 T^7 - 148 S^8 T^7 + 40 S^4 T^8 - 148 S^5 T^8 + 204 S^6 T^8 - 148 S^7 T^8 + 40 S^8 T^8 \left. \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 39] \rightarrow \frac{1}{S^6 T^6} \left(17 - 67 S + 107 S^2 - 123 S^3 + 107 S^4 - 67 S^5 + 17 S^6 - 67 T + 198 S T - \right. \\
160 S^2 T + 64 S^3 T + 64 S^4 T - 160 S^5 T + 198 S^6 T - 67 S^7 T + 107 T^2 - 160 S T^2 - 260 S^2 T^2 + \\
496 S^3 T^2 - 604 S^4 T^2 + 496 S^5 T^2 - 260 S^6 T^2 - 160 S^7 T^2 + 107 S^8 T^2 - 123 T^3 + 64 S T^3 + \\
496 S^2 T^3 - 340 S^3 T^3 + 156 S^4 T^3 + 156 S^5 T^3 - 340 S^6 T^3 + 496 S^7 T^3 + 64 S^8 T^3 - 123 S^9 T^3 + \\
107 T^4 + 64 S T^4 - 604 S^2 T^4 + 156 S^3 T^4 - 116 S^4 T^4 - 10 S^5 T^4 - 116 S^6 T^4 + 156 S^7 T^4 - \\
604 S^8 T^4 + 64 S^9 T^4 + 107 S^{10} T^4 - 67 T^5 - 160 S T^5 + 496 S^2 T^5 + 156 S^3 T^5 - 10 S^4 T^5 + \\
90 S^5 T^5 + 90 S^6 T^5 - 10 S^7 T^5 + 156 S^8 T^5 + 496 S^9 T^5 - 160 S^{10} T^5 - 67 S^{11} T^5 + 17 T^6 + 198 S T^6 - \\
260 S^2 T^6 - 340 S^3 T^6 - 116 S^4 T^6 + 90 S^5 T^6 - 264 S^6 T^6 + 90 S^7 T^6 - 116 S^8 T^6 - 340 S^9 T^6 - \\
260 S^{10} T^6 + 198 S^{11} T^6 + 17 S^{12} T^6 - 67 S T^7 - 160 S^2 T^7 + 496 S^3 T^7 + 156 S^4 T^7 - 10 S^5 T^7 + \\
90 S^6 T^7 + 90 S^7 T^7 - 10 S^8 T^7 + 156 S^9 T^7 + 496 S^{10} T^7 - 160 S^{11} T^7 - 67 S^{12} T^7 + 107 S^2 T^8 + \\
64 S^3 T^8 - 604 S^4 T^8 + 156 S^5 T^8 - 116 S^6 T^8 - 10 S^7 T^8 - 116 S^8 T^8 + 156 S^9 T^8 - 604 S^{10} T^8 + \\
64 S^{11} T^8 + 107 S^{12} T^8 - 123 S^3 T^9 + 64 S^4 T^9 + 496 S^5 T^9 - 340 S^6 T^9 + 156 S^7 T^9 + 156 S^8 T^9 - \\
340 S^9 T^9 + 496 S^{10} T^9 + 64 S^{11} T^9 - 123 S^{12} T^9 + 107 S^4 T^{10} - 160 S^5 T^{10} - 260 S^6 T^{10} + \\
496 S^7 T^{10} - 604 S^8 T^{10} + 496 S^9 T^{10} - 260 S^{10} T^{10} - 160 S^{11} T^{10} + 107 S^{12} T^{10} - 67 S^5 T^{11} + \\
198 S^6 T^{11} - 160 S^7 T^{11} + 64 S^8 T^{11} + 64 S^9 T^{11} - 160 S^{10} T^{11} + 198 S^{11} T^{11} - 67 S^{12} T^{11} + \\
17 S^6 T^{12} - 67 S^7 T^{12} + 107 S^8 T^{12} - 123 S^9 T^{12} + 107 S^{10} T^{12} - 67 S^{11} T^{12} + 17 S^{12} T^{12} \left. \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 40] \rightarrow \frac{1}{S^6 T^6} \left(9 - 35 S + 73 S^2 - 89 S^3 + 73 S^4 - 35 S^5 + 9 S^6 - 35 T + 102 S T - \right. \\
150 S^2 T + 64 S^3 T + 64 S^4 T - 150 S^5 T + 102 S^6 T - 35 S^7 T + 73 T^2 - 150 S T^2 + 136 S^2 T^2 + \\
118 S^3 T^2 - 204 S^4 T^2 + 118 S^5 T^2 + 136 S^6 T^2 - 150 S^7 T^2 + 73 S^8 T^2 - 89 T^3 + 64 S T^3 + \\
118 S^2 T^3 - 474 S^3 T^3 + 190 S^4 T^3 + 190 S^5 T^3 - 474 S^6 T^3 + 118 S^7 T^3 + 64 S^8 T^3 - 89 S^9 T^3 + \\
73 T^4 + 64 S T^4 - 204 S^2 T^4 + 190 S^3 T^4 + 735 S^4 T^4 - 1017 S^5 T^4 + 735 S^6 T^4 + 190 S^7 T^4 - \\
204 S^8 T^4 + 64 S^9 T^4 + 73 S^{10} T^4 - 35 T^5 - 150 S T^5 + 118 S^2 T^5 + 190 S^3 T^5 - 1017 S^4 T^5 + \\
404 S^5 T^5 + 404 S^6 T^5 - 1017 S^7 T^5 + 190 S^8 T^5 + 118 S^9 T^5 - 150 S^{10} T^5 - 35 S^{11} T^5 + 9 T^6 +
\end{aligned}$$

$$\begin{aligned}
& 102 S^6 T^6 + 136 S^2 T^6 - 474 S^3 T^6 + 735 S^4 T^6 + 404 S^5 T^6 - 732 S^6 T^6 + 404 S^7 T^6 + 735 S^8 T^6 - \\
& 474 S^9 T^6 + 136 S^{10} T^6 + 102 S^{11} T^6 + 9 S^{12} T^6 - 35 S^7 T^7 - 150 S^2 T^7 + 118 S^3 T^7 + 190 S^4 T^7 - \\
& 1017 S^5 T^7 + 404 S^6 T^7 + 404 S^7 T^7 - 1017 S^8 T^7 + 190 S^9 T^7 + 118 S^{10} T^7 - 150 S^{11} T^7 - \\
& 35 S^{12} T^7 + 73 S^2 T^8 + 64 S^3 T^8 - 204 S^4 T^8 + 190 S^5 T^8 + 735 S^6 T^8 - 1017 S^7 T^8 + 735 S^8 T^8 + \\
& 190 S^9 T^8 - 204 S^{10} T^8 + 64 S^{11} T^8 + 73 S^{12} T^8 - 89 S^3 T^9 + 64 S^4 T^9 + 118 S^5 T^9 - 474 S^6 T^9 + \\
& 190 S^7 T^9 + 190 S^8 T^9 - 474 S^9 T^9 + 118 S^{10} T^9 + 64 S^{11} T^9 - 89 S^{12} T^9 + 73 S^4 T^{10} - 150 S^5 T^{10} + \\
& 136 S^6 T^{10} + 118 S^7 T^{10} - 204 S^8 T^{10} + 118 S^9 T^{10} + 136 S^{10} T^{10} - 150 S^{11} T^{10} + 73 S^{12} T^{10} - \\
& 35 S^5 T^{11} + 102 S^6 T^{11} - 150 S^7 T^{11} + 64 S^8 T^{11} + 64 S^9 T^{11} - 150 S^{10} T^{11} + 102 S^{11} T^{11} - \\
& 35 S^{12} T^{11} + 9 S^6 T^{12} - 35 S^7 T^{12} + 73 S^8 T^{12} - 89 S^9 T^{12} + 73 S^{10} T^{12} - 35 S^{11} T^{12} + 9 S^{12} T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 41] \rightarrow -\frac{1}{S^6 T^6} (1 - 7 S + 17 S^2 - 21 S^3 + 17 S^4 - 7 S^5 + S^6 - 7 T + 42 S T - 70 S^2 T + 28 S^3 T + 28 S^4 T -$$

$$\begin{aligned}
& 70 S^5 T + 42 S^6 T - 7 S^7 T + 17 T^2 - 70 S T^2 - 31 S^2 T^2 + 337 S^3 T^2 - 427 S^4 T^2 + 337 S^5 T^2 - 31 S^6 T^2 - \\
& 70 S^7 T^2 + 17 S^8 T^2 - 21 T^3 + 28 S T^3 + 337 S^2 T^3 - 734 S^3 T^3 + 270 S^4 T^3 + 270 S^5 T^3 - 734 S^6 T^3 + \\
& 337 S^7 T^3 + 28 S^8 T^3 - 21 S^9 T^3 + 17 T^4 + 28 S T^4 - 427 S^2 T^4 + 270 S^3 T^4 + 1073 S^4 T^4 - 1471 S^5 T^4 + \\
& 1073 S^6 T^4 + 270 S^7 T^4 - 427 S^8 T^4 + 28 S^9 T^4 + 17 S^{10} T^4 - 7 T^5 - 70 S T^5 + 337 S^2 T^5 + 270 S^3 T^5 - \\
& 1471 S^4 T^5 + 642 S^5 T^5 + 642 S^6 T^5 - 1471 S^7 T^5 + 270 S^8 T^5 + 337 S^9 T^5 - 70 S^{10} T^5 - 7 S^{11} T^5 + \\
& T^6 + 42 S T^6 - 31 S^2 T^6 - 734 S^3 T^6 + 1073 S^4 T^6 + 642 S^5 T^6 - 1344 S^6 T^6 + 642 S^7 T^6 + 1073 S^8 T^6 - \\
& 734 S^9 T^6 - 31 S^{10} T^6 + 42 S^{11} T^6 + S^{12} T^6 - 7 S T^7 - 70 S^2 T^7 + 337 S^3 T^7 + 270 S^4 T^7 - 1471 S^5 T^7 + \\
& 642 S^6 T^7 + 642 S^7 T^7 - 1471 S^8 T^7 + 270 S^9 T^7 + 337 S^{10} T^7 - 70 S^{11} T^7 - 7 S^{12} T^7 + 17 S^2 T^8 + 28 S^3 T^8 - \\
& 427 S^4 T^8 + 270 S^5 T^8 + 1073 S^6 T^8 - 1471 S^7 T^8 + 1073 S^8 T^8 + 270 S^9 T^8 - 427 S^{10} T^8 + 28 S^{11} T^8 + \\
& 17 S^{12} T^8 - 21 S^3 T^9 + 28 S^4 T^9 + 337 S^5 T^9 - 734 S^6 T^9 + 270 S^7 T^9 + 270 S^8 T^9 - 734 S^9 T^9 + 337 S^{10} T^9 + \\
& 28 S^{11} T^9 - 21 S^{12} T^9 + 17 S^4 T^{10} - 70 S^5 T^{10} - 31 S^6 T^{10} + 337 S^7 T^{10} - 427 S^8 T^{10} + 337 S^9 T^{10} - \\
& 31 S^{10} T^{10} - 70 S^{11} T^{10} + 17 S^{12} T^{10} - 7 S^5 T^{11} + 42 S^6 T^{11} - 70 S^7 T^{11} + 28 S^8 T^{11} + 28 S^9 T^{11} - 70 S^{10} T^{11} + \\
& 42 S^{11} T^{11} - 7 S^{12} T^{11} + S^6 T^{12} - 7 S^7 T^{12} + 17 S^8 T^{12} - 21 S^9 T^{12} + 17 S^{10} T^{12} - 7 S^{11} T^{12} + S^{12} T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 42] \rightarrow -\frac{1}{S^4 T^4} (6 - 24 S + 38 S^2 - 24 S^3 + 6 S^4 - 24 T + 72 S T - 54 S^2 T - 54 S^3 T +$$

$$\begin{aligned}
& 72 S^4 T - 24 S^5 T + 38 T^2 - 54 S T^2 - 109 S^2 T^2 + 279 S^3 T^2 - 109 S^4 T^2 - 54 S^5 T^2 + 38 S^6 T^2 - \\
& 24 T^3 - 54 S T^3 + 279 S^2 T^3 - 222 S^3 T^3 - 222 S^4 T^3 + 279 S^5 T^3 - 54 S^6 T^3 - 24 S^7 T^3 + 6 T^4 + \\
& 72 S T^4 - 109 S^2 T^4 - 222 S^3 T^4 + 552 S^4 T^4 - 222 S^5 T^4 - 109 S^6 T^4 + 72 S^7 T^4 + 6 S^8 T^4 - 24 S T^5 - \\
& 54 S^2 T^5 + 279 S^3 T^5 - 222 S^4 T^5 - 222 S^5 T^5 + 279 S^6 T^5 - 54 S^7 T^5 - 24 S^8 T^5 + 38 S^2 T^6 - 54 S^3 T^6 - \\
& 109 S^4 T^6 + 279 S^5 T^6 - 109 S^6 T^6 - 54 S^7 T^6 + 38 S^8 T^6 - 24 S^3 T^7 + 72 S^4 T^7 - 54 S^5 T^7 - 54 S^6 T^7 + \\
& 72 S^7 T^7 - 24 S^8 T^7 + 6 S^4 T^8 - 24 S^5 T^8 + 38 S^6 T^8 - 24 S^7 T^8 + 6 S^8 T^8), \text{Knot}[10, 43] \rightarrow 0,
\end{aligned}$$

$$\text{Knot}[10, 44] \rightarrow -\frac{1}{S^6 T^6} (1 - 7 S + 19 S^2 - 25 S^3 + 19 S^4 - 7 S^5 + S^6 - 7 T + 42 S T - 84 S^2 T + 42 S^3 T + 42 S^4 T -$$

$$\begin{aligned}
& 84 S^5 T + 42 S^6 T - 7 S^7 T + 19 T^2 - 84 S T^2 + 43 S^2 T^2 + 297 S^3 T^2 - 469 S^4 T^2 + 297 S^5 T^2 + 43 S^6 T^2 - \\
& 84 S^7 T^2 + 19 S^8 T^2 - 25 T^3 + 42 S T^3 + 297 S^2 T^3 - 912 S^3 T^3 + 466 S^4 T^3 + 466 S^5 T^3 - 912 S^6 T^3 + \\
& 297 S^7 T^3 + 42 S^8 T^3 - 25 S^9 T^3 + 19 T^4 + 42 S T^4 - 469 S^2 T^4 + 466 S^3 T^4 + 1394 S^4 T^4 - 2348 S^5 T^4 + \\
& 1394 S^6 T^4 + 466 S^7 T^4 - 469 S^8 T^4 + 42 S^9 T^4 + 19 S^{10} T^4 - 7 T^5 - 84 S T^5 + 297 S^2 T^5 + 466 S^3 T^5 - \\
& 2348 S^4 T^5 + 1262 S^5 T^5 + 1262 S^6 T^5 - 2348 S^7 T^5 + 466 S^8 T^5 + 297 S^9 T^5 - 84 S^{10} T^5 - 7 S^{11} T^5 + \\
& T^6 + 42 S T^6 + 43 S^2 T^6 - 912 S^3 T^6 + 1394 S^4 T^6 + 1262 S^5 T^6 - 2724 S^6 T^6 + 1262 S^7 T^6 + 1394 S^8 T^6 - \\
& 912 S^9 T^6 + 43 S^{10} T^6 + 42 S^{11} T^6 + S^{12} T^6 - 7 S T^7 - 84 S^2 T^7 + 297 S^3 T^7 + 466 S^4 T^7 - 2348 S^5 T^7 + \\
& 1262 S^6 T^7 + 1262 S^7 T^7 - 2348 S^8 T^7 + 466 S^9 T^7 + 297 S^{10} T^7 - 84 S^{11} T^7 - 7 S^{12} T^7 + 19 S^2 T^8 + 42 S^3 T^8 - \\
& 469 S^4 T^8 + 466 S^5 T^8 + 1394 S^6 T^8 - 2348 S^7 T^8 + 1394 S^8 T^8 + 466 S^9 T^8 - 469 S^{10} T^8 + 42 S^{11} T^8 + \\
& 19 S^{12} T^8 - 25 S^3 T^9 + 42 S^4 T^9 + 297 S^5 T^9 - 912 S^6 T^9 + 466 S^7 T^9 + 466 S^8 T^9 - 912 S^9 T^9 + 297 S^{10} T^9 + \\
& 42 S^{11} T^9 - 25 S^{12} T^9 + 19 S^4 T^{10} - 84 S^5 T^{10} + 43 S^6 T^{10} + 297 S^7 T^{10} - 469 S^8 T^{10} + 297 S^9 T^{10} + \\
& 43 S^{10} T^{10} - 84 S^{11} T^{10} + 19 S^{12} T^{10} - 7 S^5 T^{11} + 42 S^6 T^{11} - 84 S^7 T^{11} + 42 S^8 T^{11} + 42 S^9 T^{11} - 84 S^{10} T^{11} +
\end{aligned}$$

$$\begin{aligned}
& 42 S^{11} T^{11} - 7 S^{12} T^{11} + S^6 T^{12} - 7 S^7 T^{12} + 19 S^8 T^{12} - 25 S^9 T^{12} + 19 S^{10} T^{12} - 7 S^{11} T^{12} + S^{12} T^{12} \Big), \\
& \text{Knot}[10, 45] \rightarrow 0, \text{Knot}[10, 46] \rightarrow -\frac{1}{S^8 T^8} \Big(3 - 9 S + 12 S^2 - 15 S^3 + 15 S^4 - 15 S^5 + 12 S^6 - 9 S^7 + \\
& 3 S^8 - 9 T + 18 S T - 9 S^2 T + 9 S^3 T + 9 S^6 T - 9 S^7 T + 18 S^8 T - 9 S^9 T + 12 T^2 - 9 S T^2 - 22 S^2 T^2 + \\
& 16 S^3 T^2 - 31 S^4 T^2 + 20 S^5 T^2 - 31 S^6 T^2 + 16 S^7 T^2 - 22 S^8 T^2 - 9 S^9 T^2 + 12 S^{10} T^2 - 15 T^3 + 9 S T^3 + \\
& 16 S^2 T^3 + 14 S^3 T^3 + 8 S^4 T^3 + 12 S^5 T^3 + 12 S^6 T^3 + 8 S^7 T^3 + 14 S^8 T^3 + 16 S^9 T^3 + 9 S^{10} T^3 - 15 S^{11} T^3 + \\
& 15 T^4 - 31 S^2 T^4 + 8 S^3 T^4 - 58 S^4 T^4 + 35 S^5 T^4 - 70 S^6 T^4 + 35 S^7 T^4 - 58 S^8 T^4 + 8 S^9 T^4 - 31 S^{10} T^4 + \\
& 15 S^{12} T^4 - 15 T^5 + 20 S^2 T^5 + 12 S^3 T^5 + 35 S^4 T^5 + 12 S^5 T^5 + 22 S^6 T^5 + 22 S^7 T^5 + 12 S^8 T^5 + 35 S^9 T^5 + \\
& 12 S^{10} T^5 + 20 S^{11} T^5 - 15 S^{13} T^5 + 12 T^6 + 9 S T^6 - 31 S^2 T^6 + 12 S^3 T^6 - 70 S^4 T^6 + 22 S^5 T^6 - 70 S^6 T^6 + \\
& 30 S^7 T^6 - 70 S^8 T^6 + 22 S^9 T^6 - 70 S^{10} T^6 + 12 S^{11} T^6 - 31 S^{12} T^6 + 9 S^{13} T^6 + 12 S^{14} T^6 - 9 T^7 - 9 S T^7 + \\
& 16 S^2 T^7 + 8 S^3 T^7 + 35 S^4 T^7 + 22 S^5 T^7 + 30 S^6 T^7 + 16 S^7 T^7 + 16 S^8 T^7 + 30 S^9 T^7 + 22 S^{10} T^7 + 35 S^{11} T^7 + \\
& 8 S^{12} T^7 + 16 S^{13} T^7 - 9 S^{14} T^7 - 9 S^{15} T^7 + 3 T^8 + 18 S T^8 - 22 S^2 T^8 + 14 S^3 T^8 - 58 S^4 T^8 + 12 S^5 T^8 - \\
& 70 S^6 T^8 + 16 S^7 T^8 - 48 S^8 T^8 + 16 S^9 T^8 - 70 S^{10} T^8 + 12 S^{11} T^8 - 58 S^{12} T^8 + 14 S^{13} T^8 - 22 S^{14} T^8 + \\
& 18 S^{15} T^8 + 3 S^{16} T^8 - 9 S T^9 - 9 S^2 T^9 + 16 S^3 T^9 + 8 S^4 T^9 + 35 S^5 T^9 + 22 S^6 T^9 + 30 S^7 T^9 + 16 S^8 T^9 + \\
& 16 S^9 T^9 + 30 S^{10} T^9 + 22 S^{11} T^9 + 35 S^{12} T^9 + 8 S^{13} T^9 + 16 S^{14} T^9 - 9 S^{15} T^9 - 9 S^{16} T^9 + 12 S^2 T^{10} + \\
& 9 S^3 T^{10} - 31 S^4 T^{10} + 12 S^5 T^{10} - 70 S^6 T^{10} + 22 S^7 T^{10} - 70 S^8 T^{10} + 30 S^9 T^{10} - 70 S^{10} T^{10} + 22 S^{11} T^{10} - \\
& 70 S^{12} T^{10} + 12 S^{13} T^{10} - 31 S^{14} T^{10} + 9 S^{15} T^{10} + 12 S^{16} T^{10} - 15 S^3 T^{11} + 20 S^5 T^{11} + 12 S^6 T^{11} + \\
& 35 S^7 T^{11} + 12 S^8 T^{11} + 22 S^9 T^{11} + 22 S^{10} T^{11} + 12 S^{11} T^{11} + 35 S^{12} T^{11} + 12 S^{13} T^{11} + 20 S^{14} T^{11} - \\
& 15 S^{16} T^{11} + 15 S^4 T^{12} - 31 S^6 T^{12} + 8 S^7 T^{12} - 58 S^8 T^{12} + 35 S^9 T^{12} - 70 S^{10} T^{12} + 35 S^{11} T^{12} - 58 S^{12} T^{12} + \\
& 8 S^{13} T^{12} - 31 S^{14} T^{12} + 15 S^{16} T^{12} - 15 S^5 T^{13} + 9 S^6 T^{13} + 16 S^7 T^{13} + 14 S^8 T^{13} + 8 S^9 T^{13} + 12 S^{10} T^{13} + \\
& 12 S^{11} T^{13} + 8 S^{12} T^{13} + 14 S^{13} T^{13} + 16 S^{14} T^{13} + 9 S^{15} T^{13} - 15 S^{16} T^{13} + 12 S^6 T^{14} - 9 S^7 T^{14} - 22 S^8 T^{14} + \\
& 16 S^9 T^{14} - 31 S^{10} T^{14} + 20 S^{11} T^{14} - 31 S^{12} T^{14} + 16 S^{13} T^{14} - 22 S^{14} T^{14} - 9 S^{15} T^{14} + 12 S^{16} T^{14} - \\
& 9 S^7 T^{15} + 18 S^8 T^{15} - 9 S^9 T^{15} + 9 S^{10} T^{15} + 9 S^{13} T^{15} - 9 S^{14} T^{15} + 18 S^{15} T^{15} - 9 S^{16} T^{15} + 3 S^8 T^{16} - \\
& 9 S^9 T^{16} + 12 S^{10} T^{16} - 15 S^{11} T^{16} + 15 S^{12} T^{16} - 15 S^{13} T^{16} + 12 S^{14} T^{16} - 9 S^{15} T^{16} + 3 S^{16} T^{16} \Big), \\
& \text{Knot}[10, 47] \rightarrow \frac{1}{S^8 T^8} \Big(2 - 6 S + 12 S^2 - 14 S^3 + 14 S^4 - 14 S^5 + 12 S^6 - 6 S^7 + 2 S^8 - 6 T + 12 S T - \\
& 18 S^2 T + 6 S^3 T + 6 S^6 T - 18 S^7 T + 12 S^8 T - 6 S^9 T + 12 T^2 - 18 S T^2 + 29 S^2 T^2 - 8 S^3 T^2 + \\
& 22 S^4 T^2 - 33 S^5 T^2 + 22 S^6 T^2 - 8 S^7 T^2 + 29 S^8 T^2 - 18 S^9 T^2 + 12 S^{10} T^2 - 14 T^3 + 6 S T^3 - \\
& 8 S^2 T^3 - 32 S^3 T^3 - 9 S^4 T^3 + 11 S^5 T^3 + 11 S^6 T^3 - 9 S^7 T^3 - 32 S^8 T^3 - 8 S^9 T^3 + 6 S^{10} T^3 - \\
& 14 S^{11} T^3 + 14 T^4 + 22 S^2 T^4 - 9 S^3 T^4 + 103 S^4 T^4 - 84 S^5 T^4 + 63 S^6 T^4 - 84 S^7 T^4 + 103 S^8 T^4 - \\
& 9 S^9 T^4 + 22 S^{10} T^4 + 14 S^{12} T^4 - 14 T^5 - 33 S^2 T^5 + 11 S^3 T^5 - 84 S^4 T^5 + 4 S^5 T^5 + 11 S^6 T^5 + \\
& 11 S^7 T^5 + 4 S^8 T^5 - 84 S^9 T^5 + 11 S^{10} T^5 - 33 S^{11} T^5 - 14 S^{13} T^5 + 12 T^6 + 6 S T^6 + 22 S^2 T^6 + \\
& 11 S^3 T^6 + 63 S^4 T^6 + 11 S^5 T^6 + 14 S^6 T^6 - 34 S^7 T^6 + 14 S^8 T^6 + 11 S^9 T^6 + 63 S^{10} T^6 + \\
& 11 S^{11} T^6 + 22 S^{12} T^6 + 6 S^{13} T^6 + 12 S^{14} T^6 - 6 T^7 - 18 S T^7 - 8 S^2 T^7 - 9 S^3 T^7 - 84 S^4 T^7 + \\
& 11 S^5 T^7 - 34 S^6 T^7 + 18 S^7 T^7 + 18 S^8 T^7 - 34 S^9 T^7 + 11 S^{10} T^7 - 84 S^{11} T^7 - 9 S^{12} T^7 - 8 S^{13} T^7 - \\
& 18 S^{14} T^7 - 6 S^{15} T^7 + 2 T^8 + 12 S T^8 + 29 S^2 T^8 - 32 S^3 T^8 + 103 S^4 T^8 + 4 S^5 T^8 + 14 S^6 T^8 + \\
& 18 S^7 T^8 - 36 S^8 T^8 + 18 S^9 T^8 + 14 S^{10} T^8 + 4 S^{11} T^8 + 103 S^{12} T^8 - 32 S^{13} T^8 + 29 S^{14} T^8 + \\
& 12 S^{15} T^8 + 2 S^{16} T^8 - 6 S T^9 - 18 S^2 T^9 - 8 S^3 T^9 - 9 S^4 T^9 - 84 S^5 T^9 + 11 S^6 T^9 - 34 S^7 T^9 + \\
& 18 S^8 T^9 + 18 S^9 T^9 - 34 S^{10} T^9 + 11 S^{11} T^9 - 84 S^{12} T^9 - 9 S^{13} T^9 - 8 S^{14} T^9 - 18 S^{15} T^9 - \\
& 6 S^{16} T^9 + 12 S^2 T^{10} + 6 S^3 T^{10} + 22 S^4 T^{10} + 11 S^5 T^{10} + 63 S^6 T^{10} + 11 S^7 T^{10} + 14 S^8 T^{10} - \\
& 34 S^9 T^{10} + 14 S^{10} T^{10} + 11 S^{11} T^{10} + 63 S^{12} T^{10} + 11 S^{13} T^{10} + 22 S^{14} T^{10} + 6 S^{15} T^{10} + 12 S^{16} T^{10} - \\
& 14 S^3 T^{11} - 33 S^5 T^{11} + 11 S^6 T^{11} - 84 S^7 T^{11} + 4 S^8 T^{11} + 11 S^9 T^{11} + 11 S^{10} T^{11} + 4 S^{11} T^{11} - \\
& 84 S^{12} T^{11} + 11 S^{13} T^{11} - 33 S^{14} T^{11} - 14 S^{16} T^{11} + 14 S^4 T^{12} + 22 S^6 T^{12} - 9 S^7 T^{12} + 103 S^8 T^{12} - \\
& 84 S^9 T^{12} + 63 S^{10} T^{12} - 84 S^{11} T^{12} + 103 S^{12} T^{12} - 9 S^{13} T^{12} + 22 S^{14} T^{12} + 14 S^{16} T^{12} - \\
& 14 S^5 T^{13} + 6 S^6 T^{13} - 8 S^7 T^{13} - 32 S^8 T^{13} - 9 S^9 T^{13} + 11 S^{10} T^{13} + 11 S^{11} T^{13} - 9 S^{12} T^{13} - \\
& 32 S^{13} T^{13} - 8 S^{14} T^{13} + 6 S^{15} T^{13} - 14 S^{16} T^{13} + 12 S^6 T^{14} - 18 S^7 T^{14} + 29 S^8 T^{14} - 8 S^9 T^{14} +
\end{aligned}$$

$$22 S^{10} T^{14} - 33 S^{11} T^{14} + 22 S^{12} T^{14} - 8 S^{13} T^{14} + 29 S^{14} T^{14} - 18 S^{15} T^{14} + 12 S^{16} T^{14} - 6 S^7 T^{15} + \\ 12 S^8 T^{15} - 18 S^9 T^{15} + 6 S^{10} T^{15} + 6 S^{13} T^{15} - 18 S^{14} T^{15} + 12 S^{15} T^{15} - 6 S^{16} T^{15} + 2 S^8 T^{16} - \\ 6 S^9 T^{16} + 12 S^{10} T^{16} - 14 S^{11} T^{16} + 14 S^{12} T^{16} - 14 S^{13} T^{16} + 12 S^{14} T^{16} - 6 S^{15} T^{16} + 2 S^{16} T^{16}),$$

$$\text{Knot}[10, 48] \rightarrow -\frac{1}{S^6 T^6} (1 - 2S + 2S^2 - S^3 + 2S^4 - 2S^5 + S^6 - 2T + 2ST + S^2T - 3S^3T - 3S^4T + \\ S^5T + 2S^6T - 2S^7T + 2T^2 + S^2T^2 - 9S^2T^2 + 9S^3T^2 + S^4T^2 + 9S^5T^2 - 9S^6T^2 + S^7T^2 + 2S^8T^2 - \\ T^3 - 3ST^3 + 9S^2T^3 + 2S^3T^3 - 10S^4T^3 - 10S^5T^3 + 2S^6T^3 + 9S^7T^3 - 3S^8T^3 - S^9T^3 + 2T^4 - \\ 3ST^4 + S^2T^4 - 10S^3T^4 - 5S^4T^4 + 29S^5T^4 - 5S^6T^4 - 10S^7T^4 + S^8T^4 - 3S^9T^4 + 2S^{10}T^4 - 2T^5 + \\ ST^5 + 9S^2T^5 - 10S^3T^5 + 29S^4T^5 - 22S^5T^5 - 22S^6T^5 + 29S^7T^5 - 10S^8T^5 + 9S^9T^5 + S^{10}T^5 - \\ 2S^{11}T^5 + T^6 + 2ST^6 - 9S^2T^6 + 2S^3T^6 - 5S^4T^6 - 22S^5T^6 + 48S^6T^6 - 22S^7T^6 - 5S^8T^6 + 2S^9T^6 - \\ 9S^{10}T^6 + 2S^{11}T^6 + S^{12}T^6 - 2ST^7 + S^2T^7 + 9S^3T^7 - 10S^4T^7 + 29S^5T^7 - 22S^6T^7 - 22S^7T^7 + \\ 29S^8T^7 - 10S^9T^7 + 9S^{10}T^7 + S^{11}T^7 - 2S^{12}T^7 + 2S^2T^8 - 3S^3T^8 + S^4T^8 - 10S^5T^8 - 5S^6T^8 + \\ 29S^7T^8 - 5S^8T^8 - 10S^9T^8 + S^{10}T^8 - 3S^{11}T^8 + 2S^{12}T^8 - S^3T^9 - 3S^4T^9 + 9S^5T^9 + 2S^6T^9 - \\ 10S^7T^9 - 10S^8T^9 + 2S^9T^9 + 9S^{10}T^9 - 3S^{11}T^9 - S^{12}T^9 + 2S^4T^{10} + S^5T^{10} - 9S^6T^{10} + 9S^7T^{10} + \\ S^8T^{10} + 9S^9T^{10} - 9S^{10}T^{10} + S^{11}T^{10} + 2S^{12}T^{10} - 2S^5T^{11} + 2S^6T^{11} + S^7T^{11} - 3S^8T^{11} - 3S^9T^{11} + \\ S^{10}T^{11} + 2S^{11}T^{11} - 2S^{12}T^{11} + S^6T^{12} - 2S^7T^{12} + 2S^8T^{12} - S^9T^{12} + 2S^{10}T^{12} - 2S^{11}T^{12} + S^{12}T^{12}),$$

$$\text{Knot}[10, 49] \rightarrow -\frac{1}{S^6 T^6} (84 - 220S + 328S^2 - 354S^3 + 328S^4 - 220S^5 + 84S^6 - 220T + 360ST - \\ 287S^2T + 70S^3T + 70S^4T - 287S^5T + 360S^6T - 220S^7T + 328T^2 - 287ST^2 + 54S^2T^2 + \\ 114S^3T^2 - 4S^4T^2 + 114S^5T^2 + 54S^6T^2 - 287S^7T^2 + 328S^8T^2 - 354T^3 + 70ST^3 + 114S^2T^3 - \\ 108S^3T^3 - 111S^4T^3 - 111S^5T^3 - 108S^6T^3 + 114S^7T^3 + 70S^8T^3 - 354S^9T^3 + 328T^4 + 70ST^4 - \\ 4S^2T^4 - 111S^3T^4 + 300S^4T^4 - 14S^5T^4 + 300S^6T^4 - 111S^7T^4 - 4S^8T^4 + 70S^9T^4 + 328S^{10}T^4 - \\ 220T^5 - 287ST^5 + 114S^2T^5 - 111S^3T^5 - 14S^4T^5 - 196S^5T^5 - 196S^6T^5 - 14S^7T^5 - 111S^8T^5 + \\ 114S^9T^5 - 287S^{10}T^5 - 220S^{11}T^5 + 84T^6 + 360ST^6 + 54S^2T^6 - 108S^3T^6 + 300S^4T^6 - 196S^5T^6 + \\ 540S^6T^6 - 196S^7T^6 + 300S^8T^6 - 108S^9T^6 + 54S^{10}T^6 + 360S^{11}T^6 + 84S^{12}T^6 - 220ST^7 - \\ 287S^2T^7 + 114S^3T^7 - 111S^4T^7 - 14S^5T^7 - 196S^6T^7 - 196S^7T^7 - 14S^8T^7 - 111S^9T^7 + \\ 114S^{10}T^7 - 287S^{11}T^7 - 220S^{12}T^7 + 328S^2T^8 + 70S^3T^8 - 4S^4T^8 - 111S^5T^8 + 300S^6T^8 - \\ 14S^7T^8 + 300S^8T^8 - 111S^9T^8 - 4S^{10}T^8 + 70S^{11}T^8 + 328S^{12}T^8 - 354S^3T^9 + 70S^4T^9 + \\ 114S^5T^9 - 108S^6T^9 - 111S^7T^9 - 111S^8T^9 - 108S^9T^9 + 114S^{10}T^9 + 70S^{11}T^9 - 354S^{12}T^9 + \\ 328S^4T^{10} - 287S^5T^{10} + 54S^6T^{10} + 114S^7T^{10} - 4S^8T^{10} + 114S^9T^{10} + 54S^{10}T^{10} - 287S^{11}T^{10} + \\ 328S^{12}T^{10} - 220S^5T^{11} + 360S^6T^{11} - 287S^7T^{11} + 70S^8T^{11} + 70S^9T^{11} - 287S^{10}T^{11} + 360S^{11}T^{11} - \\ 220S^{12}T^{11} + 84S^6T^{12} - 220S^7T^{12} + 328S^8T^{12} - 354S^9T^{12} + 328S^{10}T^{12} - 220S^{11}T^{12} + 84S^{12}T^{12}),$$

$$\text{Knot}[10, 50] \rightarrow -\frac{1}{S^6 T^6} (17 - 59S + 92S^2 - 109S^3 + 92S^4 - 59S^5 + 17S^6 - 59T + 146ST - \\ 115S^2T + 59S^3T + 59S^4T - 115S^5T + 146S^6T - 59S^7T + 92T^2 - 115ST^2 - 129S^2T^2 + \\ 234S^3T^2 - 355S^4T^2 + 234S^5T^2 - 129S^6T^2 - 115S^7T^2 + 92S^8T^2 - 109T^3 + 59ST^3 + 234S^2T^3 - \\ 124S^3T^3 + 131S^4T^3 + 131S^5T^3 - 124S^6T^3 + 234S^7T^3 + 59S^8T^3 - 109S^9T^3 + 92T^4 + 59ST^4 - \\ 355S^2T^4 + 131S^3T^4 - 230S^4T^4 + 26S^5T^4 - 230S^6T^4 + 131S^7T^4 - 355S^8T^4 + 59S^9T^4 + \\ 92S^{10}T^4 - 59T^5 - 115ST^5 + 234S^2T^5 + 131S^3T^5 + 26S^4T^5 + 144S^5T^5 + 144S^6T^5 + 26S^7T^5 + \\ 131S^8T^5 + 234S^9T^5 - 115S^{10}T^5 - 59S^{11}T^5 + 17T^6 + 146ST^6 - 129S^2T^6 - 124S^3T^6 - 230S^4T^6 + \\ 144S^5T^6 - 420S^6T^6 + 144S^7T^6 - 230S^8T^6 - 124S^9T^6 - 129S^{10}T^6 + 146S^{11}T^6 + 17S^{12}T^6 - \\ 59ST^7 - 115S^2T^7 + 234S^3T^7 + 131S^4T^7 + 26S^5T^7 + 144S^6T^7 + 144S^7T^7 + 26S^8T^7 + 131S^9T^7 + \\ 234S^{10}T^7 - 115S^{11}T^7 - 59S^{12}T^7 + 92S^2T^8 + 59S^3T^8 - 355S^4T^8 + 131S^5T^8 - 230S^6T^8 + \\ 26S^7T^8 - 230S^8T^8 + 131S^9T^8 - 355S^{10}T^8 + 59S^{11}T^8 + 92S^{12}T^8 - 109S^3T^9 + 59S^4T^9 + \\ 234S^5T^9 - 124S^6T^9 + 131S^7T^9 + 131S^8T^9 - 124S^9T^9 + 234S^{10}T^9 + 59S^{11}T^9 - 109S^{12}T^9 + \\ 92S^4T^{10} - 115S^5T^{10} - 129S^6T^{10} + 234S^7T^{10} - 355S^8T^{10} + 234S^9T^{10} - 129S^{10}T^{10} - 115S^{11}T^{10} +$$

$$92 S^{12} T^{10} - 59 S^5 T^{11} + 146 S^6 T^{11} - 115 S^7 T^{11} + 59 S^8 T^{11} + 59 S^9 T^{11} - 115 S^{10} T^{11} + 146 S^{11} T^{11} - 59 S^{12} T^{11} + 17 S^6 T^{12} - 59 S^7 T^{12} + 92 S^8 T^{12} - 109 S^9 T^{12} + 92 S^{10} T^{12} - 59 S^{11} T^{12} + 17 S^{12} T^{12}),$$

$$\text{Knot}[10, 51] \rightarrow \frac{1}{S^6 T^6} (9 - 31 S + 66 S^2 - 83 S^3 + 66 S^4 - 31 S^5 + 9 S^6 - 31 T + 76 S T - 121 S^2 T + 59 S^3 T + 59 S^4 T - 121 S^5 T + 76 S^6 T - 31 S^7 T + 66 T^2 - 121 S T^2 + 174 S^2 T^2 - 19 S^3 T^2 - 74 S^4 T^2 - 19 S^5 T^2 + 174 S^6 T^2 - 121 S^7 T^2 + 66 S^8 T^2 - 83 T^3 + 59 S T^3 - 19 S^2 T^3 - 278 S^3 T^3 + 169 S^4 T^3 + 169 S^5 T^3 - 278 S^6 T^3 - 19 S^7 T^3 + 59 S^8 T^3 - 83 S^9 T^3 + 66 T^4 + 59 S T^4 - 74 S^2 T^4 + 169 S^3 T^4 + 467 S^4 T^4 - 839 S^5 T^4 + 467 S^6 T^4 + 169 S^7 T^4 - 74 S^8 T^4 + 59 S^9 T^4 + 66 S^{10} T^4 - 31 T^5 - 121 S T^5 - 19 S^2 T^5 + 169 S^3 T^5 - 839 S^4 T^5 + 474 S^5 T^5 + 474 S^6 T^5 - 839 S^7 T^5 + 169 S^8 T^5 - 19 S^9 T^5 - 121 S^{10} T^5 - 31 S^{11} T^5 + 9 T^6 + 76 S T^6 + 174 S^2 T^6 - 278 S^3 T^6 + 467 S^4 T^6 + 474 S^5 T^6 - 1032 S^6 T^6 + 474 S^7 T^6 + 467 S^8 T^6 - 278 S^9 T^6 + 174 S^{10} T^6 + 76 S^{11} T^6 + 9 S^{12} T^6 - 31 S T^7 - 121 S^2 T^7 - 19 S^3 T^7 + 169 S^4 T^7 - 839 S^5 T^7 + 474 S^6 T^7 + 474 S^7 T^7 - 839 S^8 T^7 + 169 S^9 T^7 - 19 S^{10} T^7 - 121 S^{11} T^7 - 31 S^{12} T^7 + 66 S^2 T^8 + 59 S^3 T^8 - 74 S^4 T^8 + 169 S^5 T^8 + 467 S^6 T^8 - 839 S^7 T^8 + 467 S^8 T^8 + 169 S^9 T^8 - 74 S^{10} T^8 + 59 S^{11} T^8 + 66 S^{12} T^8 - 83 S^3 T^9 + 59 S^4 T^9 - 19 S^5 T^9 - 278 S^6 T^9 + 169 S^7 T^9 + 169 S^8 T^9 - 278 S^9 T^9 - 19 S^{10} T^9 + 59 S^{11} T^9 - 83 S^{12} T^9 + 66 S^4 T^{10} - 121 S^5 T^{10} + 174 S^6 T^{10} - 19 S^7 T^{10} - 74 S^8 T^{10} - 19 S^9 T^{10} + 174 S^{10} T^{10} - 121 S^{11} T^{10} + 66 S^{12} T^{10} - 31 S^5 T^{11} + 76 S^6 T^{11} - 121 S^7 T^{11} + 59 S^8 T^{11} + 59 S^9 T^{11} - 121 S^{10} T^{11} + 76 S^{11} T^{11} - 31 S^{12} T^{11} + 9 S^6 T^{12} - 31 S^7 T^{12} + 66 S^8 T^{12} - 83 S^9 T^{12} + 66 S^{10} T^{12} - 31 S^{11} T^{12} + 9 S^{12} T^{12}),$$

$$\text{Knot}[10, 52] \rightarrow \frac{1}{S^6 T^6} (7 - 25 S + 46 S^2 - 53 S^3 + 46 S^4 - 25 S^5 + 7 S^6 - 25 T + 64 S T - 75 S^2 T + 25 S^3 T + 25 S^4 T - 75 S^5 T + 64 S^6 T - 25 S^7 T + 46 T^2 - 75 S T^2 + 18 S^2 T^2 + 113 S^3 T^2 - 132 S^4 T^2 + 113 S^5 T^2 + 18 S^6 T^2 - 75 S^7 T^2 + 46 S^8 T^2 - 53 T^3 + 25 S T^3 + 113 S^2 T^3 - 226 S^3 T^3 + 71 S^4 T^3 + 71 S^5 T^3 - 226 S^6 T^3 + 113 S^7 T^3 + 25 S^8 T^3 - 53 S^9 T^3 + 46 T^4 + 25 S T^4 - 132 S^2 T^4 + 71 S^3 T^4 + 252 S^4 T^4 - 338 S^5 T^4 + 252 S^6 T^4 + 71 S^7 T^4 - 132 S^8 T^4 + 25 S^9 T^4 + 46 S^{10} T^4 - 25 T^5 - 75 S T^5 + 113 S^2 T^5 + 71 S^3 T^5 - 338 S^4 T^5 + 158 S^5 T^5 + 158 S^6 T^5 - 338 S^7 T^5 + 71 S^8 T^5 + 113 S^9 T^5 - 75 S^{10} T^5 - 25 S^{11} T^5 + 7 T^6 + 64 S T^6 + 18 S^2 T^6 - 226 S^3 T^6 + 252 S^4 T^6 + 158 S^5 T^6 - 360 S^6 T^6 + 158 S^7 T^6 + 252 S^8 T^6 - 226 S^9 T^6 + 18 S^{10} T^6 + 64 S^{11} T^6 + 7 S^{12} T^6 - 25 S T^7 - 75 S^2 T^7 + 113 S^3 T^7 + 71 S^4 T^7 - 338 S^5 T^7 + 158 S^6 T^7 + 158 S^7 T^7 - 338 S^8 T^7 + 71 S^9 T^7 + 113 S^{10} T^7 - 75 S^{11} T^7 - 25 S^{12} T^7 + 46 S^2 T^8 + 25 S^3 T^8 - 132 S^4 T^8 + 71 S^5 T^8 + 252 S^6 T^8 - 338 S^7 T^8 + 252 S^8 T^8 + 71 S^9 T^8 - 132 S^{10} T^8 + 25 S^{11} T^8 + 46 S^{12} T^8 - 53 S^3 T^9 + 25 S^4 T^9 + 113 S^5 T^9 - 226 S^6 T^9 + 71 S^7 T^9 + 71 S^8 T^9 - 226 S^9 T^9 + 113 S^{10} T^9 + 25 S^{11} T^9 - 53 S^{12} T^9 + 46 S^4 T^{10} - 75 S^5 T^{10} + 18 S^6 T^{10} + 113 S^7 T^{10} - 132 S^8 T^{10} + 113 S^9 T^{10} + 18 S^{10} T^{10} - 75 S^{11} T^{10} + 46 S^{12} T^{10} - 25 S^5 T^{11} + 64 S^6 T^{11} - 75 S^7 T^{11} + 25 S^8 T^{11} + 25 S^9 T^{11} - 75 S^{10} T^{11} + 64 S^{11} T^{11} - 25 S^{12} T^{11} + 7 S^6 T^{12} - 25 S^7 T^{12} + 46 S^8 T^{12} - 53 S^9 T^{12} + 46 S^{10} T^{12} - 25 S^{11} T^{12} + 7 S^{12} T^{12}),$$

$$\text{Knot}[10, 53] \rightarrow -\frac{1}{S^4 T^4} (483 - 1416 S + 1959 S^2 - 1416 S^3 + 483 S^4 - 1416 T + 2758 S T - 1608 S^2 T - 1608 S^3 T + 2758 S^4 T - 1416 S^5 T + 1959 T^2 - 1608 S T^2 - 2497 S^2 T^2 + 5757 S^3 T^2 - 2497 S^4 T^2 - 1608 S^5 T^2 + 1959 S^6 T^2 - 1416 T^3 - 1608 S T^3 + 5757 S^2 T^3 - 4000 S^3 T^3 - 4000 S^4 T^3 + 5757 S^5 T^3 - 1608 S^6 T^3 - 1416 S^7 T^3 + 483 T^4 + 2758 S T^4 - 2497 S^2 T^4 - 4000 S^3 T^4 + 9528 S^4 T^4 - 4000 S^5 T^4 - 2497 S^6 T^4 + 2758 S^7 T^4 + 483 S^8 T^4 - 1416 S T^5 - 1608 S^2 T^5 + 5757 S^3 T^5 - 4000 S^4 T^5 - 4000 S^5 T^5 + 5757 S^6 T^5 - 1608 S^7 T^5 - 1416 S^8 T^5 + 1959 S^2 T^6 - 1608 S^3 T^6 - 2497 S^4 T^6 + 5757 S^5 T^6 - 2497 S^6 T^6 - 1608 S^7 T^6 + 1959 S^8 T^6 - 1416 S^3 T^7 + 2758 S^4 T^7 - 1608 S^5 T^7 - 1608 S^6 T^7 + 2758 S^7 T^7 - 1416 S^8 T^7 + 483 S^4 T^8 - 1416 S^5 T^8 + 1959 S^6 T^8 - 1416 S^7 T^8 + 483 S^8 T^8),$$

$$\text{Knot}[10, 54] \rightarrow \frac{1}{S^6 T^6} (7 - 21 S + 34 S^2 - 37 S^3 + 34 S^4 - 21 S^5 + 7 S^6 - 21 T + 42 S T - 39 S^2 T +$$

$$\begin{aligned}
& 9 S^3 T + 9 S^4 T - 39 S^5 T + 42 S^6 T - 21 S^7 T + 34 T^2 - 39 S T^2 - S^2 T^2 + 57 S^3 T^2 - 51 S^4 T^2 + \\
& 57 S^5 T^2 - S^6 T^2 - 39 S^7 T^2 + 34 S^8 T^2 - 37 T^3 + 9 S T^3 + 57 S^2 T^3 - 90 S^3 T^3 + 18 S^4 T^3 + \\
& 18 S^5 T^3 - 90 S^6 T^3 + 57 S^7 T^3 + 9 S^8 T^3 - 37 S^9 T^3 + 34 T^4 + 9 S T^4 - 51 S^2 T^4 + 18 S^3 T^4 + \\
& 91 S^4 T^4 - 105 S^5 T^4 + 91 S^6 T^4 + 18 S^7 T^4 - 51 S^8 T^4 + 9 S^9 T^4 + 34 S^{10} T^4 - 21 T^5 - \\
& 39 S T^5 + 57 S^2 T^5 + 18 S^3 T^5 - 105 S^4 T^5 + 48 S^5 T^5 + 48 S^6 T^5 - 105 S^7 T^5 + 18 S^8 T^5 + \\
& 57 S^9 T^5 - 39 S^{10} T^5 - 21 S^{11} T^5 + 7 T^6 + 42 S T^6 - S^2 T^6 - 90 S^3 T^6 + 91 S^4 T^6 + 48 S^5 T^6 - \\
& 120 S^6 T^6 + 48 S^7 T^6 + 91 S^8 T^6 - 90 S^9 T^6 - S^{10} T^6 + 42 S^{11} T^6 + 7 S^{12} T^6 - 21 S T^7 - \\
& 39 S^2 T^7 + 57 S^3 T^7 + 18 S^4 T^7 - 105 S^5 T^7 + 48 S^6 T^7 + 48 S^7 T^7 - 105 S^8 T^7 + 18 S^9 T^7 + \\
& 57 S^{10} T^7 - 39 S^{11} T^7 - 21 S^{12} T^7 + 34 S^2 T^8 + 9 S^3 T^8 - 51 S^4 T^8 + 18 S^5 T^8 + 91 S^6 T^8 - \\
& 105 S^7 T^8 + 91 S^8 T^8 + 18 S^9 T^8 - 51 S^{10} T^8 + 9 S^{11} T^8 + 34 S^{12} T^8 - 37 S^3 T^9 + 9 S^4 T^9 + \\
& 57 S^5 T^9 - 90 S^6 T^9 + 18 S^7 T^9 + 18 S^8 T^9 - 90 S^9 T^9 + 57 S^{10} T^9 + 9 S^{11} T^9 - 37 S^{12} T^9 + \\
& 34 S^4 T^{10} - 39 S^5 T^{10} - S^6 T^{10} + 57 S^7 T^{10} - 51 S^8 T^{10} + 57 S^9 T^{10} - S^{10} T^{10} - 39 S^{11} T^{10} + \\
& 34 S^{12} T^{10} - 21 S^5 T^{11} + 42 S^6 T^{11} - 39 S^7 T^{11} + 9 S^8 T^{11} + 9 S^9 T^{11} - 39 S^{10} T^{11} + 42 S^{11} T^{11} - \\
& 21 S^{12} T^{11} + 7 S^6 T^{12} - 21 S^7 T^{12} + 34 S^8 T^{12} - 37 S^9 T^{12} + 34 S^{10} T^{12} - 21 S^{11} T^{12} + 7 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 55] & \rightarrow -\frac{1}{S^4 T^4} \Big(290 - 850 S + 1186 S^2 - 850 S^3 + 290 S^4 - 850 T + 1654 S T - 993 S^2 T - \\
& 993 S^3 T + 1654 S^4 T - 850 S^5 T + 1186 T^2 - 993 S T^2 - 1398 S^2 T^2 + 3456 S^3 T^2 - 1398 S^4 T^2 - \\
& 993 S^5 T^2 + 1186 S^6 T^2 - 850 T^3 - 993 S T^3 + 3456 S^2 T^3 - 2522 S^3 T^3 - 2522 S^4 T^3 + 3456 S^5 T^3 - \\
& 993 S^6 T^3 - 850 S^7 T^3 + 290 T^4 + 1654 S T^4 - 1398 S^2 T^4 - 2522 S^3 T^4 + 6120 S^4 T^4 - 2522 S^5 T^4 - \\
& 1398 S^6 T^4 + 1654 S^7 T^4 + 290 S^8 T^4 - 850 S^5 T^5 - 993 S^2 T^5 + 3456 S^3 T^5 - 2522 S^4 T^5 - \\
& 2522 S^5 T^5 + 3456 S^6 T^5 - 993 S^7 T^5 - 850 S^8 T^5 + 1186 S^2 T^6 - 993 S^3 T^6 - 1398 S^4 T^6 + \\
& 3456 S^5 T^6 - 1398 S^6 T^6 - 993 S^7 T^6 + 1186 S^8 T^6 - 850 S^3 T^7 + 1654 S^4 T^7 - 993 S^5 T^7 - \\
& 993 S^6 T^7 + 1654 S^7 T^7 - 850 S^8 T^7 + 290 S^4 T^8 - 850 S^5 T^8 + 1186 S^6 T^8 - 850 S^7 T^8 + 290 S^8 T^8 \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 56] & \rightarrow -\frac{1}{S^6 T^6} \Big(17 - 67 S + 116 S^2 - 141 S^3 + 116 S^4 - 67 S^5 + 17 S^6 - 67 T + 198 S T - \\
& 195 S^2 T + 99 S^3 T + 99 S^4 T - 195 S^5 T + 198 S^6 T - 67 S^7 T + 116 T^2 - 195 S T^2 - 138 S^2 T^2 + 418 S^3 T^2 - \\
& 648 S^4 T^2 + 418 S^5 T^2 - 138 S^6 T^2 - 195 S^7 T^2 + 116 S^8 T^2 - 141 T^3 + 99 S T^3 + 418 S^2 T^3 - 404 S^3 T^3 + \\
& 304 S^4 T^3 + 304 S^5 T^3 - 404 S^6 T^3 + 418 S^7 T^3 + 99 S^8 T^3 - 141 S^9 T^3 + 116 T^4 + 99 S T^4 - 648 S^2 T^4 + \\
& 304 S^3 T^4 - 187 S^4 T^4 - 281 S^5 T^4 - 187 S^6 T^4 + 304 S^7 T^4 - 648 S^8 T^4 + 99 S^9 T^4 + 116 S^{10} T^4 - \\
& 67 T^5 - 195 S T^5 + 418 S^2 T^5 + 304 S^3 T^5 - 281 S^4 T^5 + 420 S^5 T^5 + 420 S^6 T^5 - 281 S^7 T^5 + 304 S^8 T^5 + \\
& 418 S^9 T^5 - 195 S^{10} T^5 - 67 S^{11} T^5 + 17 T^6 + 198 S T^6 - 138 S^2 T^6 - 404 S^3 T^6 - 187 S^4 T^6 + 420 S^5 T^6 - \\
& 1116 S^6 T^6 + 420 S^7 T^6 - 187 S^8 T^6 - 404 S^9 T^6 - 138 S^{10} T^6 + 198 S^{11} T^6 + 17 S^{12} T^6 - 67 S T^7 - \\
& 195 S^2 T^7 + 418 S^3 T^7 + 304 S^4 T^7 - 281 S^5 T^7 + 420 S^6 T^7 + 420 S^7 T^7 - 281 S^8 T^7 + 304 S^9 T^7 + \\
& 418 S^{10} T^7 - 195 S^{11} T^7 - 67 S^{12} T^7 + 116 S^2 T^8 + 99 S^3 T^8 - 648 S^4 T^8 + 304 S^5 T^8 - 187 S^6 T^8 - \\
& 281 S^7 T^8 - 187 S^8 T^8 + 304 S^9 T^8 - 648 S^{10} T^8 + 99 S^{11} T^8 + 116 S^{12} T^8 - 141 S^3 T^9 + 99 S^4 T^9 + \\
& 418 S^5 T^9 - 404 S^6 T^9 + 304 S^7 T^9 + 304 S^8 T^9 - 404 S^9 T^9 + 418 S^{10} T^9 + 99 S^{11} T^9 - 141 S^{12} T^9 + \\
& 116 S^4 T^{10} - 195 S^5 T^{10} - 138 S^6 T^{10} + 418 S^7 T^{10} - 648 S^8 T^{10} + 418 S^9 T^{10} - 138 S^{10} T^{10} - 195 S^{11} T^{10} + \\
& 116 S^{12} T^{10} - 67 S^5 T^{11} + 198 S^6 T^{11} - 195 S^7 T^{11} + 99 S^8 T^{11} + 99 S^9 T^{11} - 195 S^{10} T^{11} + 198 S^{11} T^{11} - \\
& 67 S^{12} T^{11} + 17 S^6 T^{12} - 67 S^7 T^{12} + 116 S^8 T^{12} - 141 S^9 T^{12} + 116 S^{10} T^{12} - 67 S^{11} T^{12} + 17 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 57] & \rightarrow \frac{1}{S^6 T^6} \Big(9 - 35 S + 78 S^2 - 99 S^3 + 78 S^4 - 35 S^5 + 9 S^6 - 35 T + 102 S T - 169 S^2 T + \\
& 83 S^3 T + 83 S^4 T - 169 S^5 T + 102 S^6 T - 35 S^7 T + 78 T^2 - 169 S T^2 + 220 S^2 T^2 + 42 S^3 T^2 - \\
& 188 S^4 T^2 + 42 S^5 T^2 + 220 S^6 T^2 - 169 S^7 T^2 + 78 S^8 T^2 - 99 T^3 + 83 S T^3 + 42 S^2 T^3 - \\
& 512 S^3 T^3 + 282 S^4 T^3 + 282 S^5 T^3 - 512 S^6 T^3 + 42 S^7 T^3 + 83 S^8 T^3 - 99 S^9 T^3 + 78 T^4 + \\
& 83 S T^4 - 188 S^2 T^4 + 282 S^3 T^4 + 869 S^4 T^4 - 1467 S^5 T^4 + 869 S^6 T^4 + 282 S^7 T^4 - 188 S^8 T^4 + \\
& 83 S^9 T^4 + 78 S^{10} T^4 - 35 T^5 - 169 S T^5 + 42 S^2 T^5 + 282 S^3 T^5 - 1467 S^4 T^5 + 780 S^5 T^5 +
\end{aligned}$$

$$\begin{aligned}
& 780 S^6 T^5 - 1467 S^7 T^5 + 282 S^8 T^5 + 42 S^9 T^5 - 169 S^{10} T^5 - 35 S^{11} T^5 + 9 T^6 + 102 S T^6 + \\
& 220 S^2 T^6 - 512 S^3 T^6 + 869 S^4 T^6 + 780 S^5 T^6 - 1656 S^6 T^6 + 780 S^7 T^6 + 869 S^8 T^6 - \\
& 512 S^9 T^6 + 220 S^{10} T^6 + 102 S^{11} T^6 + 9 S^{12} T^6 - 35 S T^7 - 169 S^2 T^7 + 42 S^3 T^7 + 282 S^4 T^7 - \\
& 1467 S^5 T^7 + 780 S^6 T^7 + 780 S^7 T^7 - 1467 S^8 T^7 + 282 S^9 T^7 + 42 S^{10} T^7 - 169 S^{11} T^7 - \\
& 35 S^{12} T^7 + 78 S^2 T^8 + 83 S^3 T^8 - 188 S^4 T^8 + 282 S^5 T^8 + 869 S^6 T^8 - 1467 S^7 T^8 + 869 S^8 T^8 + \\
& 282 S^9 T^8 - 188 S^{10} T^8 + 83 S^{11} T^8 + 78 S^{12} T^8 - 99 S^3 T^9 + 83 S^4 T^9 + 42 S^5 T^9 - 512 S^6 T^9 + \\
& 282 S^7 T^9 + 282 S^8 T^9 - 512 S^9 T^9 + 42 S^{10} T^9 + 83 S^{11} T^9 - 99 S^{12} T^9 + 78 S^4 T^{10} - 169 S^5 T^{10} + \\
& 220 S^6 T^{10} + 42 S^7 T^{10} - 188 S^8 T^{10} + 42 S^9 T^{10} + 220 S^{10} T^{10} - 169 S^{11} T^{10} + 78 S^{12} T^{10} - \\
& 35 S^5 T^{11} + 102 S^6 T^{11} - 169 S^7 T^{11} + 83 S^8 T^{11} + 83 S^9 T^{11} - 169 S^{10} T^{11} + 102 S^{11} T^{11} - \\
& 35 S^{12} T^{11} + 9 S^6 T^{12} - 35 S^7 T^{12} + 78 S^8 T^{12} - 99 S^9 T^{12} + 78 S^{10} T^{12} - 35 S^{11} T^{12} + 9 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 58] \rightarrow & -\frac{1}{S^4 T^4} \left(3 - 20 S + 37 S^2 - 20 S^3 + 3 S^4 - 20 T + 108 S T - 105 S^2 T - 105 S^3 T + \right. \\
& 108 S^4 T - 20 S^5 T + 37 T^2 - 105 S T^2 - 337 S^2 T^2 + 963 S^3 T^2 - 337 S^4 T^2 - 105 S^5 T^2 + 37 S^6 T^2 - \\
& 20 T^3 - 105 S T^3 + 963 S^2 T^3 - 1016 S^3 T^3 - 1016 S^4 T^3 + 963 S^5 T^3 - 105 S^6 T^3 - 20 S^7 T^3 + 3 T^4 + \\
& 108 S T^4 - 337 S^2 T^4 - 1016 S^3 T^4 + 2952 S^4 T^4 - 1016 S^5 T^4 - 337 S^6 T^4 + 108 S^7 T^4 + 3 S^8 T^4 - \\
& 20 S T^5 - 105 S^2 T^5 + 963 S^3 T^5 - 1016 S^4 T^5 - 1016 S^5 T^5 + 963 S^6 T^5 - 105 S^7 T^5 - 20 S^8 T^5 + \\
& 37 S^2 T^6 - 105 S^3 T^6 - 337 S^4 T^6 + 963 S^5 T^6 - 337 S^6 T^6 - 105 S^7 T^6 + 37 S^8 T^6 - 20 S^3 T^7 + 108 S^4 T^7 - \\
& \left. 105 S^5 T^7 - 105 S^6 T^7 + 108 S^7 T^7 - 20 S^8 T^7 + 3 S^4 T^8 - 20 S^5 T^8 + 37 S^6 T^8 - 20 S^7 T^8 + 3 S^8 T^8 \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 59] \rightarrow & \frac{1}{S^6 T^6} \left(1 - 3 S + S^2 \right) \left(1 - 3 T + T^2 \right) \left(1 - 3 S T + S^2 T^2 \right) \\
& \left(1 - 4 S + 5 S^2 - 4 S^3 + S^4 - 4 T + 12 S T - 4 S^2 T - 4 S^3 T + 12 S^4 T - 4 S^5 T + 5 T^2 - 4 S T^2 - \right. \\
& 29 S^2 T^2 + 35 S^3 T^2 - 29 S^4 T^2 - 4 S^5 T^2 + 5 S^6 T^2 - 4 T^3 - 4 S T^3 + 35 S^2 T^3 - 12 S^3 T^3 - 12 S^4 T^3 + \\
& 35 S^5 T^3 - 4 S^6 T^3 - 4 S^7 T^3 + T^4 + 12 S T^4 - 29 S^2 T^4 - 12 S^3 T^4 + 24 S^4 T^4 - 12 S^5 T^4 - 29 S^6 T^4 + \\
& 12 S^7 T^4 + S^8 T^4 - 4 S T^5 - 4 S^2 T^5 + 35 S^3 T^5 - 12 S^4 T^5 - 12 S^5 T^5 + 35 S^6 T^5 - 4 S^7 T^5 - \\
& 4 S^8 T^5 + 5 S^2 T^6 - 4 S^3 T^6 - 29 S^4 T^6 + 35 S^5 T^6 - 29 S^6 T^6 - 4 S^7 T^6 + 5 S^8 T^6 - 4 S^3 T^7 + \\
& \left. 12 S^4 T^7 - 4 S^5 T^7 - 4 S^6 T^7 + 12 S^7 T^7 - 4 S^8 T^7 + S^4 T^8 - 4 S^5 T^8 + 5 S^6 T^8 - 4 S^7 T^8 + S^8 T^8 \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 60] \rightarrow & -\frac{1}{S^4 T^4} \left(1 - 6 S + 15 S^2 - 6 S^3 + S^4 - 6 T + 30 S T - 49 S^2 T - 49 S^3 T + 30 S^4 T - 6 S^5 T + \right. \\
& 15 T^2 - 49 S T^2 - 27 S^2 T^2 + 329 S^3 T^2 - 27 S^4 T^2 - 49 S^5 T^2 + 15 S^6 T^2 - 6 T^3 - 49 S T^3 + 329 S^2 T^3 - \\
& 504 S^3 T^3 - 504 S^4 T^3 + 329 S^5 T^3 - 49 S^6 T^3 - 6 S^7 T^3 + T^4 + 30 S T^4 - 27 S^2 T^4 - 504 S^3 T^4 + 1596 S^4 T^4 - \\
& 504 S^5 T^4 - 27 S^6 T^4 + 30 S^7 T^4 + S^8 T^4 - 6 S T^5 - 49 S^2 T^5 + 329 S^3 T^5 - 504 S^4 T^5 - 504 S^5 T^5 + 329 S^6 T^5 - \\
& 49 S^7 T^5 - 6 S^8 T^5 + 15 S^2 T^6 - 49 S^3 T^6 - 27 S^4 T^6 + 329 S^5 T^6 - 27 S^6 T^6 - 49 S^7 T^6 + 15 S^8 T^6 - 6 S^3 T^7 + \\
& \left. 30 S^4 T^7 - 49 S^5 T^7 - 49 S^6 T^7 + 30 S^7 T^7 - 6 S^8 T^7 + S^4 T^8 - 6 S^5 T^8 + 15 S^6 T^8 - 6 S^7 T^8 + S^8 T^8 \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 61] \rightarrow & -\frac{1}{S^6 T^6} \left(15 - 37 S + 44 S^2 - 51 S^3 + 44 S^4 - 37 S^5 + 15 S^6 - 37 T + 54 S T - 17 S^2 T + \right. \\
& 17 S^3 T + 17 S^4 T - 17 S^5 T + 54 S^6 T - 37 S^7 T + 44 T^2 - 17 S T^2 - 62 S^2 T^2 + 36 S^3 T^2 - 76 S^4 T^2 + \\
& 36 S^5 T^2 - 62 S^6 T^2 - 17 S^7 T^2 + 44 S^8 T^2 - 51 T^3 + 17 S T^3 + 36 S^2 T^3 + 28 S^3 T^3 + 25 S^4 T^3 + 25 S^5 T^3 + \\
& 28 S^6 T^3 + 36 S^7 T^3 + 17 S^8 T^3 - 51 S^9 T^3 + 44 T^4 + 17 S T^4 - 76 S^2 T^4 + 25 S^3 T^4 - 100 S^4 T^4 + 46 S^5 T^4 - \\
& 100 S^6 T^4 + 25 S^7 T^4 - 76 S^8 T^4 + 17 S^9 T^4 + 44 S^{10} T^4 - 37 T^5 - 17 S T^5 + 36 S^2 T^5 + 25 S^3 T^5 + \\
& 46 S^4 T^5 + 18 S^5 T^5 + 18 S^6 T^5 + 46 S^7 T^5 + 25 S^8 T^5 + 36 S^9 T^5 - 17 S^{10} T^5 - 37 S^{11} T^5 + 15 T^6 + \\
& 54 S T^6 - 62 S^2 T^6 + 28 S^3 T^6 - 100 S^4 T^6 + 18 S^5 T^6 - 48 S^6 T^6 + 18 S^7 T^6 - 100 S^8 T^6 + 28 S^9 T^6 - \\
& 62 S^{10} T^6 + 54 S^{11} T^6 + 15 S^{12} T^6 - 37 S T^7 - 17 S^2 T^7 + 36 S^3 T^7 + 25 S^4 T^7 + 46 S^5 T^7 + 18 S^6 T^7 + \\
& 18 S^7 T^7 + 46 S^8 T^7 + 25 S^9 T^7 + 36 S^{10} T^7 - 17 S^{11} T^7 - 37 S^{12} T^7 + 44 S^2 T^8 + 17 S^3 T^8 - 76 S^4 T^8 + \\
& 25 S^5 T^8 - 100 S^6 T^8 + 46 S^7 T^8 - 100 S^8 T^8 + 25 S^9 T^8 - 76 S^{10} T^8 + 17 S^{11} T^8 + 44 S^{12} T^8 - 51 S^3 T^9 + \\
& 17 S^4 T^9 + 36 S^5 T^9 + 28 S^6 T^9 + 25 S^7 T^9 + 25 S^8 T^9 + 28 S^9 T^9 + 36 S^{10} T^9 + 17 S^{11} T^9 - 51 S^{12} T^9 + \\
& \left. 44 S^4 T^{10} - 17 S^5 T^{10} - 62 S^6 T^{10} + 36 S^7 T^{10} - 76 S^8 T^{10} + 36 S^9 T^{10} - 62 S^{10} T^{10} - 17 S^{11} T^{10} + \right.
\end{aligned}$$

$$\begin{aligned}
& 44 S^{12} T^{10} - 37 S^5 T^{11} + 54 S^6 T^{11} - 17 S^7 T^{11} + 17 S^8 T^{11} + 17 S^9 T^{11} - 17 S^{10} T^{11} + 54 S^{11} T^{11} - \\
& 37 S^{12} T^{11} + 15 S^6 T^{12} - 37 S^7 T^{12} + 44 S^8 T^{12} - 51 S^9 T^{12} + 44 S^{10} T^{12} - 37 S^{11} T^{12} + 15 S^{12} T^{12} \Big), \\
& \text{Knot}[10, 62] \rightarrow \frac{1}{S^8 T^8} \Big(2 - 6 S + 12 S^2 - 16 S^3 + 18 S^4 - 16 S^5 + 12 S^6 - 6 S^7 + 2 S^8 - 6 T + 12 S T - \\
& 18 S^2 T + 12 S^3 T - 6 S^4 T - 6 S^5 T + 12 S^6 T - 18 S^7 T + 12 S^8 T - 6 S^9 T + 12 T^2 - 18 S T^2 + \\
& 29 S^2 T^2 - 19 S^3 T^2 + 26 S^4 T^2 - 19 S^5 T^2 + 26 S^6 T^2 - 19 S^7 T^2 + 29 S^8 T^2 - 18 S^9 T^2 + 12 S^{10} T^2 - \\
& 16 T^3 + 12 S T^3 - 19 S^2 T^3 - 8 S^3 T^3 - 9 S^4 T^3 - 7 S^5 T^3 - 7 S^6 T^3 - 9 S^7 T^3 - 8 S^8 T^3 - 19 S^9 T^3 + \\
& 12 S^{10} T^3 - 16 S^{11} T^3 + 18 T^4 - 6 S T^4 + 26 S^2 T^4 - 9 S^3 T^4 + 64 S^4 T^4 - 48 S^5 T^4 + 76 S^6 T^4 - \\
& 48 S^7 T^4 + 64 S^8 T^4 - 9 S^9 T^4 + 26 S^{10} T^4 - 6 S^{11} T^4 + 18 S^{12} T^4 - 16 T^5 - 6 S T^5 - 19 S^2 T^5 - \\
& 7 S^3 T^5 - 48 S^4 T^5 - 4 S^5 T^5 - 21 S^6 T^5 - 21 S^7 T^5 - 4 S^8 T^5 - 48 S^9 T^5 - 7 S^{10} T^5 - 19 S^{11} T^5 - \\
& 6 S^{12} T^5 - 16 S^{13} T^5 + 12 T^6 + 12 S T^6 + 26 S^2 T^6 - 7 S^3 T^6 + 76 S^4 T^6 - 21 S^5 T^6 + 70 S^6 T^6 - \\
& 32 S^7 T^6 + 70 S^8 T^6 - 21 S^9 T^6 + 76 S^{10} T^6 - 7 S^{11} T^6 + 26 S^{12} T^6 + 12 S^{13} T^6 + 12 S^{14} T^6 - 6 T^7 - \\
& 18 S T^7 - 19 S^2 T^7 - 9 S^3 T^7 - 48 S^4 T^7 - 21 S^5 T^7 - 32 S^6 T^7 - 18 S^7 T^7 - 18 S^8 T^7 - 32 S^9 T^7 - \\
& 21 S^{10} T^7 - 48 S^{11} T^7 - 9 S^{12} T^7 - 19 S^{13} T^7 - 18 S^{14} T^7 - 6 S^{15} T^7 + 2 T^8 + 12 S T^8 + 29 S^2 T^8 - \\
& 8 S^3 T^8 + 64 S^4 T^8 - 4 S^5 T^8 + 70 S^6 T^8 - 18 S^7 T^8 + 60 S^8 T^8 - 18 S^9 T^8 + 70 S^{10} T^8 - 4 S^{11} T^8 + \\
& 64 S^{12} T^8 - 8 S^{13} T^8 + 29 S^{14} T^8 + 12 S^{15} T^8 + 2 S^{16} T^8 - 6 S T^9 - 18 S^2 T^9 - 19 S^3 T^9 - 9 S^4 T^9 - \\
& 48 S^5 T^9 - 21 S^6 T^9 - 32 S^7 T^9 - 18 S^8 T^9 - 18 S^9 T^9 - 32 S^{10} T^9 - 21 S^{11} T^9 - 48 S^{12} T^9 - \\
& 9 S^{13} T^9 - 19 S^{14} T^9 - 18 S^{15} T^9 - 6 S^{16} T^9 + 12 S^2 T^{10} + 12 S^3 T^{10} + 26 S^4 T^{10} - 7 S^5 T^{10} + \\
& 76 S^6 T^{10} - 21 S^7 T^{10} + 70 S^8 T^{10} - 32 S^9 T^{10} + 70 S^{10} T^{10} - 21 S^{11} T^{10} + 76 S^{12} T^{10} - 7 S^{13} T^{10} + \\
& 26 S^{14} T^{10} + 12 S^{15} T^{10} + 12 S^{16} T^{10} - 16 S^3 T^{11} - 6 S^4 T^{11} - 19 S^5 T^{11} - 7 S^6 T^{11} - 48 S^7 T^{11} - \\
& 4 S^8 T^{11} - 21 S^9 T^{11} - 21 S^{10} T^{11} - 4 S^{11} T^{11} - 48 S^{12} T^{11} - 7 S^{13} T^{11} - 19 S^{14} T^{11} - 6 S^{15} T^{11} - \\
& 16 S^{16} T^{11} + 18 S^4 T^{12} - 6 S^5 T^{12} + 26 S^6 T^{12} - 9 S^7 T^{12} + 64 S^8 T^{12} - 48 S^9 T^{12} + 76 S^{10} T^{12} - \\
& 48 S^{11} T^{12} + 64 S^{12} T^{12} - 9 S^{13} T^{12} + 26 S^{14} T^{12} - 6 S^{15} T^{12} + 18 S^{16} T^{12} - 16 S^5 T^{13} + 12 S^6 T^{13} - \\
& 19 S^7 T^{13} - 8 S^8 T^{13} - 9 S^9 T^{13} - 7 S^{10} T^{13} - 7 S^{11} T^{13} - 9 S^{12} T^{13} - 8 S^{13} T^{13} - 19 S^{14} T^{13} + \\
& 12 S^{15} T^{13} - 16 S^{16} T^{13} + 12 S^6 T^{14} - 18 S^7 T^{14} + 29 S^8 T^{14} - 19 S^9 T^{14} + 26 S^{10} T^{14} - 19 S^{11} T^{14} + \\
& 26 S^{12} T^{14} - 19 S^{13} T^{14} + 29 S^{14} T^{14} - 18 S^{15} T^{14} + 12 S^{16} T^{14} - 6 S^7 T^{15} + 12 S^8 T^{15} - 18 S^9 T^{15} + \\
& 12 S^{10} T^{15} - 6 S^{11} T^{15} - 6 S^{12} T^{15} + 12 S^{13} T^{15} - 18 S^{14} T^{15} + 12 S^{15} T^{15} - 6 S^{16} T^{15} + 2 S^8 T^{16} - \\
& 6 S^9 T^{16} + 12 S^{10} T^{16} - 16 S^{11} T^{16} + 18 S^{12} T^{16} - 16 S^{13} T^{16} + 12 S^{14} T^{16} - 6 S^{15} T^{16} + 2 S^{16} T^{16} \Big), \\
& \text{Knot}[10, 63] \rightarrow -\frac{1}{S^4 T^4} 2 \Big(145 - 396 S + 535 S^2 - 396 S^3 + 145 S^4 - 396 T + 694 S T - 386 S^2 T - \\
& 386 S^3 T + 694 S^4 T - 396 S^5 T + 535 T^2 - 386 S T^2 - 519 S^2 T^2 + 1201 S^3 T^2 - 519 S^4 T^2 - \\
& 386 S^5 T^2 + 535 S^6 T^2 - 396 T^3 - 386 S T^3 + 1201 S^2 T^3 - 806 S^3 T^3 - 806 S^4 T^3 + 1201 S^5 T^3 - \\
& 386 S^6 T^3 - 396 S^7 T^3 + 145 T^4 + 694 S T^4 - 519 S^2 T^4 - 806 S^3 T^4 + 1884 S^4 T^4 - 806 S^5 T^4 - \\
& 519 S^6 T^4 + 694 S^7 T^4 + 145 S^8 T^4 - 396 S T^5 - 386 S^2 T^5 + 1201 S^3 T^5 - 806 S^4 T^5 - 806 S^5 T^5 + \\
& 1201 S^6 T^5 - 386 S^7 T^5 - 396 S^8 T^5 + 535 S^2 T^6 - 386 S^3 T^6 - 519 S^4 T^6 + 1201 S^5 T^6 - \\
& 519 S^6 T^6 - 386 S^7 T^6 + 535 S^8 T^6 - 396 S^3 T^7 + 694 S^4 T^7 - 386 S^5 T^7 - 386 S^6 T^7 + \\
& 694 S^7 T^7 - 396 S^8 T^7 + 145 S^4 T^8 - 396 S^5 T^8 + 535 S^6 T^8 - 396 S^7 T^8 + 145 S^8 T^8 \Big), \\
& \text{Knot}[10, 64] \rightarrow -\frac{1}{S^8 T^8} \Big(1 - 3 S + 6 S^2 - 10 S^3 + 11 S^4 - 10 S^5 + 6 S^6 - 3 S^7 + S^8 - 3 T + 6 S T - \\
& 9 S^2 T + 12 S^3 T - 3 S^4 T - 3 S^5 T + 12 S^6 T - 9 S^7 T + 6 S^8 T - 3 S^9 T + 6 T^2 - 9 S T^2 + 14 S^2 T^2 - \\
& 21 S^3 T^2 + 6 S^4 T^2 - 12 S^5 T^2 + 6 S^6 T^2 - 21 S^7 T^2 + 14 S^8 T^2 - 9 S^9 T^2 + 6 S^{10} T^2 - 10 T^3 + 12 S T^3 - \\
& 21 S^2 T^3 + 30 S^3 T^3 + S^4 T^3 + 13 S^5 T^3 + 13 S^6 T^3 + S^7 T^3 + 30 S^8 T^3 - 21 S^9 T^3 + 12 S^{10} T^3 - 10 S^{11} T^3 + \\
& 11 T^4 - 3 S T^4 + 6 S^2 T^4 + S^3 T^4 - 54 S^4 T^4 + 19 S^5 T^4 - 56 S^6 T^4 + 19 S^7 T^4 - 54 S^8 T^4 + S^9 T^4 + 6 S^{10} T^4 - \\
& 3 S^{11} T^4 + 11 S^{12} T^4 - 10 T^5 - 3 S T^5 - 12 S^2 T^5 + 13 S^3 T^5 + 19 S^4 T^5 + 52 S^5 T^5 + 16 S^6 T^5 + 16 S^7 T^5 + \\
& 52 S^8 T^5 + 19 S^9 T^5 + 13 S^{10} T^5 - 12 S^{11} T^5 - 3 S^{12} T^5 - 10 S^{13} T^5 + 6 T^6 + 12 S T^6 + 6 S^2 T^6 + 13 S^3 T^6 - \\
& 56 S^4 T^6 + 16 S^5 T^6 - 149 S^6 T^6 + 103 S^7 T^6 - 149 S^8 T^6 + 16 S^9 T^6 - 56 S^{10} T^6 + 13 S^{11} T^6 + 6 S^{12} T^6 +
\end{aligned}$$

$$\begin{aligned}
& 12 S^{13} T^6 + 6 S^{14} T^6 - 3 T^7 - 9 S T^7 - 21 S^2 T^7 + S^3 T^7 + 19 S^4 T^7 + 16 S^5 T^7 + 103 S^6 T^7 + 12 S^7 T^7 + \\
& 12 S^8 T^7 + 103 S^9 T^7 + 16 S^{10} T^7 + 19 S^{11} T^7 + S^{12} T^7 - 21 S^{13} T^7 - 9 S^{14} T^7 - 3 S^{15} T^7 + T^8 + 6 S T^8 + \\
& 14 S^2 T^8 + 30 S^3 T^8 - 54 S^4 T^8 + 52 S^5 T^8 - 149 S^6 T^8 + 12 S^7 T^8 - 72 S^8 T^8 + 12 S^9 T^8 - 149 S^{10} T^8 + \\
& 52 S^{11} T^8 - 54 S^{12} T^8 + 30 S^{13} T^8 + 14 S^{14} T^8 + 6 S^{15} T^8 + S^{16} T^8 - 3 S T^9 - 9 S^2 T^9 - 21 S^3 T^9 + S^4 T^9 + \\
& 19 S^5 T^9 + 16 S^6 T^9 + 103 S^7 T^9 + 12 S^8 T^9 + 12 S^9 T^9 + 103 S^{10} T^9 + 16 S^{11} T^9 + 19 S^{12} T^9 + S^{13} T^9 - \\
& 21 S^{14} T^9 - 9 S^{15} T^9 - 3 S^{16} T^9 + 6 S^2 T^{10} + 12 S^3 T^{10} + 6 S^4 T^{10} + 13 S^5 T^{10} - 56 S^6 T^{10} + 16 S^7 T^{10} - \\
& 149 S^8 T^{10} + 103 S^9 T^{10} - 149 S^{10} T^{10} + 16 S^{11} T^{10} - 56 S^{12} T^{10} + 13 S^{13} T^{10} + 6 S^{14} T^{10} + 12 S^{15} T^{10} + \\
& 6 S^{16} T^{10} - 10 S^3 T^{11} - 3 S^4 T^{11} - 12 S^5 T^{11} + 13 S^6 T^{11} + 19 S^7 T^{11} + 52 S^8 T^{11} + 16 S^9 T^{11} + 16 S^{10} T^{11} + \\
& 52 S^{11} T^{11} + 19 S^{12} T^{11} + 13 S^{13} T^{11} - 12 S^{14} T^{11} - 3 S^{15} T^{11} - 10 S^{16} T^{11} + 11 S^4 T^{12} - 3 S^5 T^{12} + \\
& 6 S^6 T^{12} + S^7 T^{12} - 54 S^8 T^{12} + 19 S^9 T^{12} - 56 S^{10} T^{12} + 19 S^{11} T^{12} - 54 S^{12} T^{12} + S^{13} T^{12} + 6 S^{14} T^{12} - \\
& 3 S^{15} T^{12} + 11 S^{16} T^{12} - 10 S^5 T^{13} + 12 S^6 T^{13} - 21 S^7 T^{13} + 30 S^8 T^{13} + S^9 T^{13} + 13 S^{10} T^{13} + 13 S^{11} T^{13} + \\
& S^{12} T^{13} + 30 S^{13} T^{13} - 21 S^{14} T^{13} + 12 S^{15} T^{13} - 10 S^{16} T^{13} + 6 S^6 T^{14} - 9 S^7 T^{14} + 14 S^8 T^{14} - 21 S^9 T^{14} + \\
& 6 S^{10} T^{14} - 12 S^{11} T^{14} + 6 S^{12} T^{14} - 21 S^{13} T^{14} + 14 S^{14} T^{14} - 9 S^{15} T^{14} + 6 S^{16} T^{14} - 3 S^7 T^{15} + \\
& 6 S^8 T^{15} - 9 S^9 T^{15} + 12 S^{10} T^{15} - 3 S^{11} T^{15} - 3 S^{12} T^{15} + 12 S^{13} T^{15} - 9 S^{14} T^{15} + 6 S^{15} T^{15} - 3 S^{16} T^{15} + \\
& S^8 T^{16} - 3 S^9 T^{16} + 6 S^{10} T^{16} - 10 S^{11} T^{16} + 11 S^{12} T^{16} - 10 S^{13} T^{16} + 6 S^{14} T^{16} - 3 S^{15} T^{16} + S^{16} T^{16}),
\end{aligned}$$

$$\text{Knot}[10, 65] \rightarrow \frac{1}{S^6 T^6} (9 - 31 S + 62 S^2 - 75 S^3 + 62 S^4 - 31 S^5 + 9 S^6 - 31 T + 76 S T - 107 S^2 T +$$

$$\begin{aligned}
& 45 S^3 T + 45 S^4 T - 107 S^5 T + 76 S^6 T - 31 S^7 T + 62 T^2 - 107 S T^2 + 118 S^2 T^2 + 28 S^3 T^2 - \\
& 78 S^4 T^2 + 28 S^5 T^2 + 118 S^6 T^2 - 107 S^7 T^2 + 62 S^8 T^2 - 75 T^3 + 45 S T^3 + 28 S^2 T^3 - \\
& 256 S^3 T^3 + 113 S^4 T^3 + 113 S^5 T^3 - 256 S^6 T^3 + 28 S^7 T^3 + 45 S^8 T^3 - 75 S^9 T^3 + 62 T^4 + \\
& 45 S T^4 - 78 S^2 T^4 + 113 S^3 T^4 + 420 S^4 T^4 - 636 S^5 T^4 + 420 S^6 T^4 + 113 S^7 T^4 - 78 S^8 T^4 + \\
& 45 S^9 T^4 + 62 S^{10} T^4 - 31 T^5 - 107 S T^5 + 28 S^2 T^5 + 113 S^3 T^5 - 636 S^4 T^5 + 312 S^5 T^5 + \\
& 312 S^6 T^5 - 636 S^7 T^5 + 113 S^8 T^5 + 28 S^9 T^5 - 107 S^{10} T^5 - 31 S^{11} T^5 + 9 T^6 + 76 S T^6 + \\
& 118 S^2 T^6 - 256 S^3 T^6 + 420 S^4 T^6 + 312 S^5 T^6 - 660 S^6 T^6 + 312 S^7 T^6 + 420 S^8 T^6 - \\
& 256 S^9 T^6 + 118 S^{10} T^6 + 76 S^{11} T^6 + 9 S^{12} T^6 - 31 S T^7 - 107 S^2 T^7 + 28 S^3 T^7 + 113 S^4 T^7 - \\
& 636 S^5 T^7 + 312 S^6 T^7 + 312 S^7 T^7 - 636 S^8 T^7 + 113 S^9 T^7 + 28 S^{10} T^7 - 107 S^{11} T^7 - \\
& 31 S^{12} T^7 + 62 S^2 T^8 + 45 S^3 T^8 - 78 S^4 T^8 + 113 S^5 T^8 + 420 S^6 T^8 - 636 S^7 T^8 + 420 S^8 T^8 + \\
& 113 S^9 T^8 - 78 S^{10} T^8 + 45 S^{11} T^8 + 62 S^{12} T^8 - 75 S^3 T^9 + 45 S^4 T^9 + 28 S^5 T^9 - 256 S^6 T^9 + \\
& 113 S^7 T^9 + 113 S^8 T^9 - 256 S^9 T^9 + 28 S^{10} T^9 + 45 S^{11} T^9 - 75 S^{12} T^9 + 62 S^4 T^{10} - 107 S^5 T^{10} + \\
& 118 S^6 T^{10} + 28 S^7 T^{10} - 78 S^8 T^{10} + 28 S^9 T^{10} + 118 S^{10} T^{10} - 107 S^{11} T^{10} + 62 S^{12} T^{10} - \\
& 31 S^5 T^{11} + 76 S^6 T^{11} - 107 S^7 T^{11} + 45 S^8 T^{11} + 45 S^9 T^{11} - 107 S^{10} T^{11} + 76 S^{11} T^{11} - \\
& 31 S^{12} T^{11} + 9 S^6 T^{12} - 31 S^7 T^{12} + 62 S^8 T^{12} - 75 S^9 T^{12} + 62 S^{10} T^{12} - 31 S^{11} T^{12} + 9 S^{12} T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 66] \rightarrow -\frac{1}{S^6 T^6} (84 - 246 S + 434 S^2 - 514 S^3 + 434 S^4 - 246 S^5 + 84 S^6 - 246 T + 480 S T -$$

$$\begin{aligned}
& 558 S^2 T + 238 S^3 T + 238 S^4 T - 558 S^5 T + 480 S^6 T - 246 S^7 T + 434 T^2 - 558 S T^2 + 505 S^2 T^2 - \\
& 48 S^3 T^2 - 133 S^4 T^2 - 48 S^5 T^2 + 505 S^6 T^2 - 558 S^7 T^2 + 434 S^8 T^2 - 514 T^3 + 238 S T^3 - 48 S^2 T^3 - \\
& 432 S^3 T^3 + 181 S^4 T^3 + 181 S^5 T^3 - 432 S^6 T^3 - 48 S^7 T^3 + 238 S^8 T^3 - 514 S^9 T^3 + 434 T^4 + 238 S T^4 - \\
& 133 S^2 T^4 + 181 S^3 T^4 + 697 S^4 T^4 - 933 S^5 T^4 + 697 S^6 T^4 + 181 S^7 T^4 - 133 S^8 T^4 + 238 S^9 T^4 + \\
& 434 S^{10} T^4 - 246 T^5 - 558 S T^5 - 48 S^2 T^5 + 181 S^3 T^5 - 933 S^4 T^5 + 340 S^5 T^5 + 340 S^6 T^5 - 933 S^7 T^5 + \\
& 181 S^8 T^5 - 48 S^9 T^5 - 558 S^{10} T^5 - 246 S^{11} T^5 + 84 T^6 + 480 S T^6 + 505 S^2 T^6 - 432 S^3 T^6 + 697 S^4 T^6 + \\
& 340 S^5 T^6 - 576 S^6 T^6 + 340 S^7 T^6 + 697 S^8 T^6 - 432 S^9 T^6 + 505 S^{10} T^6 + 480 S^{11} T^6 + 84 S^{12} T^6 - \\
& 246 S T^7 - 558 S^2 T^7 - 48 S^3 T^7 + 181 S^4 T^7 - 933 S^5 T^7 + 340 S^6 T^7 + 340 S^7 T^7 - 933 S^8 T^7 + 181 S^9 T^7 - \\
& 48 S^{10} T^7 - 558 S^{11} T^7 - 246 S^{12} T^7 + 434 S^2 T^8 + 238 S^3 T^8 - 133 S^4 T^8 + 181 S^5 T^8 + 697 S^6 T^8 - \\
& 933 S^7 T^8 + 697 S^8 T^8 + 181 S^9 T^8 - 133 S^{10} T^8 + 238 S^{11} T^8 + 434 S^{12} T^8 - 514 S^3 T^9 + 238 S^4 T^9 - \\
& 48 S^5 T^9 - 432 S^6 T^9 + 181 S^7 T^9 + 181 S^8 T^9 - 432 S^9 T^9 - 48 S^{10} T^9 + 238 S^{11} T^9 - 514 S^{12} T^9 + \\
& 434 S^4 T^{10} - 558 S^5 T^{10} + 505 S^6 T^{10} - 48 S^7 T^{10} - 133 S^8 T^{10} - 48 S^9 T^{10} + 505 S^{10} T^{10} - 558 S^{11} T^{10} +
\end{aligned}$$

$$\begin{aligned}
& 434 S^{12} T^{10} - 246 S^5 T^{11} + 480 S^6 T^{11} - 558 S^7 T^{11} + 238 S^8 T^{11} + 238 S^9 T^{11} - 558 S^{10} T^{11} + 480 S^{11} T^{11} - \\
& 246 S^{12} T^{11} + 84 S^6 T^{12} - 246 S^7 T^{12} + 434 S^8 T^{12} - 514 S^9 T^{12} + 434 S^{10} T^{12} - 246 S^{11} T^{12} + 84 S^{12} T^{12} \Big), \\
\text{Knot}[10, 67] & \rightarrow \frac{1}{S^4 T^4} 2 \Big(40 - 158 S + 224 S^2 - 158 S^3 + 40 S^4 - 158 T + 468 S T - 263 S^2 T - \\
& 263 S^3 T + 468 S^4 T - 158 S^5 T + 224 T^2 - 263 S T^2 - 991 S^2 T^2 + 1752 S^3 T^2 - 991 S^4 T^2 - \\
& 263 S^5 T^2 + 224 S^6 T^2 - 158 T^3 - 263 S T^3 + 1752 S^2 T^3 - 1042 S^3 T^3 - 1042 S^4 T^3 + 1752 S^5 T^3 - \\
& 263 S^6 T^3 - 158 S^7 T^3 + 40 T^4 + 468 S T^4 - 991 S^2 T^4 - 1042 S^3 T^4 + 2346 S^4 T^4 - 1042 S^5 T^4 - \\
& 991 S^6 T^4 + 468 S^7 T^4 + 40 S^8 T^4 - 158 S T^5 - 263 S^2 T^5 + 1752 S^3 T^5 - 1042 S^4 T^5 - \\
& 1042 S^5 T^5 + 1752 S^6 T^5 - 263 S^7 T^5 - 158 S^8 T^5 + 224 S^2 T^6 - 263 S^3 T^6 - 991 S^4 T^6 + \\
& 1752 S^5 T^6 - 991 S^6 T^6 - 263 S^7 T^6 + 224 S^8 T^6 - 158 S^3 T^7 + 468 S^4 T^7 - 263 S^5 T^7 - \\
& 263 S^6 T^7 + 468 S^7 T^7 - 158 S^8 T^7 + 40 S^4 T^8 - 158 S^5 T^8 + 224 S^6 T^8 - 158 S^7 T^8 + 40 S^8 T^8 \Big), \\
\text{Knot}[10, 68] & \rightarrow -\frac{1}{S^4 T^4} \Big(16 - 56 S + 88 S^2 - 56 S^3 + 16 S^4 - 56 T + 142 S T - 114 S^2 T - 114 S^3 T + \\
& 142 S^4 T - 56 S^5 T + 88 T^2 - 114 S T^2 - 69 S^2 T^2 + 395 S^3 T^2 - 69 S^4 T^2 - 114 S^5 T^2 + 88 S^6 T^2 - \\
& 56 T^3 - 114 S T^3 + 395 S^2 T^3 - 444 S^3 T^3 - 444 S^4 T^3 + 395 S^5 T^3 - 114 S^6 T^3 - 56 S^7 T^3 + 16 T^4 + \\
& 142 S T^4 - 69 S^2 T^4 - 444 S^3 T^4 + 1272 S^4 T^4 - 444 S^5 T^4 - 69 S^6 T^4 + 142 S^7 T^4 + 16 S^8 T^4 - \\
& 56 S T^5 - 114 S^2 T^5 + 395 S^3 T^5 - 444 S^4 T^5 - 444 S^5 T^5 + 395 S^6 T^5 - 114 S^7 T^5 - 56 S^8 T^5 + \\
& 88 S^2 T^6 - 114 S^3 T^6 - 69 S^4 T^6 + 395 S^5 T^6 - 69 S^6 T^6 - 114 S^7 T^6 + 88 S^8 T^6 - 56 S^3 T^7 + 142 S^4 T^7 - \\
& 114 S^5 T^7 - 114 S^6 T^7 + 142 S^7 T^7 - 56 S^8 T^7 + 16 S^4 T^8 - 56 S^5 T^8 + 88 S^6 T^8 - 56 S^7 T^8 + 16 S^8 T^8 \Big), \\
\text{Knot}[10, 69] & \rightarrow \frac{1}{S^6 T^6} \Big(1 - 7 S + 21 S^2 - 29 S^3 + 21 S^4 - 7 S^5 + S^6 - 7 T + 42 S T - 98 S^2 T + \\
& 56 S^3 T + 56 S^4 T - 98 S^5 T + 42 S^6 T - 7 S^7 T + 21 T^2 - 98 S T^2 + 117 S^2 T^2 + 289 S^3 T^2 - \\
& 565 S^4 T^2 + 289 S^5 T^2 + 117 S^6 T^2 - 98 S^7 T^2 + 21 S^8 T^2 - 29 T^3 + 56 S T^3 + 289 S^2 T^3 - \\
& 1306 S^3 T^3 + 810 S^4 T^3 + 810 S^5 T^3 - 1306 S^6 T^3 + 289 S^7 T^3 + 56 S^8 T^3 - 29 S^9 T^3 + 21 T^4 + \\
& 56 S T^4 - 565 S^2 T^4 + 810 S^3 T^4 + 2479 S^4 T^4 - 4713 S^5 T^4 + 2479 S^6 T^4 + 810 S^7 T^4 - \\
& 565 S^8 T^4 + 56 S^9 T^4 + 21 S^{10} T^4 - 7 T^5 - 98 S T^5 + 289 S^2 T^5 + 810 S^3 T^5 - 4713 S^4 T^5 + \\
& 2978 S^5 T^5 + 2978 S^6 T^5 - 4713 S^7 T^5 + 810 S^8 T^5 + 289 S^9 T^5 - 98 S^{10} T^5 - 7 S^{11} T^5 + T^6 + \\
& 42 S T^6 + 117 S^2 T^6 - 1306 S^3 T^6 + 2479 S^4 T^6 + 2978 S^5 T^6 - 6876 S^6 T^6 + 2978 S^7 T^6 + \\
& 2479 S^8 T^6 - 1306 S^9 T^6 + 117 S^{10} T^6 + 42 S^{11} T^6 + S^{12} T^6 - 7 S T^7 - 98 S^2 T^7 + 289 S^3 T^7 + \\
& 810 S^4 T^7 - 4713 S^5 T^7 + 2978 S^6 T^7 + 2978 S^7 T^7 - 4713 S^8 T^7 + 810 S^9 T^7 + 289 S^{10} T^7 - \\
& 98 S^{11} T^7 - 7 S^{12} T^7 + 21 S^2 T^8 + 56 S^3 T^8 - 565 S^4 T^8 + 810 S^5 T^8 + 2479 S^6 T^8 - 4713 S^7 T^8 + \\
& 2479 S^8 T^8 + 810 S^9 T^8 - 565 S^{10} T^8 + 56 S^{11} T^8 + 21 S^{12} T^8 - 29 S^3 T^9 + 56 S^4 T^9 + 289 S^5 T^9 - \\
& 1306 S^6 T^9 + 810 S^7 T^9 + 810 S^8 T^9 - 1306 S^9 T^9 + 289 S^{10} T^9 + 56 S^{11} T^9 - 29 S^{12} T^9 + 21 S^4 T^{10} - \\
& 98 S^5 T^{10} + 117 S^6 T^{10} + 289 S^7 T^{10} - 565 S^8 T^{10} + 289 S^9 T^{10} + 117 S^{10} T^{10} - 98 S^{11} T^{10} + \\
& 21 S^{12} T^{10} - 7 S^5 T^{11} + 42 S^6 T^{11} - 98 S^7 T^{11} + 56 S^8 T^{11} + 56 S^9 T^{11} - 98 S^{10} T^{11} + 42 S^{11} T^{11} - \\
& 7 S^{12} T^{11} + S^6 T^{12} - 7 S^7 T^{12} + 21 S^8 T^{12} - 29 S^9 T^{12} + 21 S^{10} T^{12} - 7 S^{11} T^{12} + S^{12} T^{12} \Big), \\
\text{Knot}[10, 70] & \rightarrow \frac{1}{S^6 T^6} \Big(1 - 7 S + 16 S^2 - 19 S^3 + 16 S^4 - 7 S^5 + S^6 - 7 T + 42 S T - 63 S^2 T + \\
& 21 S^3 T + 21 S^4 T - 63 S^5 T + 42 S^6 T - 7 S^7 T + 16 T^2 - 63 S T^2 - 66 S^2 T^2 + 355 S^3 T^2 - \\
& 406 S^4 T^2 + 355 S^5 T^2 - 66 S^6 T^2 - 63 S^7 T^2 + 16 S^8 T^2 - 19 T^3 + 21 S T^3 + 355 S^2 T^3 - \\
& 662 S^3 T^3 + 189 S^4 T^3 + 189 S^5 T^3 - 662 S^6 T^3 + 355 S^7 T^3 + 21 S^8 T^3 - 19 S^9 T^3 + 16 T^4 + \\
& 21 S T^4 - 406 S^2 T^4 + 189 S^3 T^4 + 975 S^4 T^4 - 1163 S^5 T^4 + 975 S^6 T^4 + 189 S^7 T^4 - \\
& 406 S^8 T^4 + 21 S^9 T^4 + 16 S^{10} T^4 - 7 T^5 - 63 S T^5 + 355 S^2 T^5 + 189 S^3 T^5 - 1163 S^4 T^5 + \\
& 410 S^5 T^5 + 410 S^6 T^5 - 1163 S^7 T^5 + 189 S^8 T^5 + 355 S^9 T^5 - 63 S^{10} T^5 - 7 S^{11} T^5 + T^6 + \\
& 42 S T^6 - 66 S^2 T^6 - 662 S^3 T^6 + 975 S^4 T^6 + 410 S^5 T^6 - 804 S^6 T^6 + 410 S^7 T^6 + 975 S^8 T^6 - \\
& 662 S^9 T^6 - 66 S^{10} T^6 + 42 S^{11} T^6 + S^{12} T^6 - 7 S T^7 - 63 S^2 T^7 + 355 S^3 T^7 + 189 S^4 T^7 -
\end{aligned}$$

$$\begin{aligned}
& 1163 S^5 T^7 + 410 S^6 T^7 + 410 S^7 T^7 - 1163 S^8 T^7 + 189 S^9 T^7 + 355 S^{10} T^7 - 63 S^{11} T^7 - \\
& 7 S^{12} T^7 + 16 S^2 T^8 + 21 S^3 T^8 - 406 S^4 T^8 + 189 S^5 T^8 + 975 S^6 T^8 - 1163 S^7 T^8 + 975 S^8 T^8 + \\
& 189 S^9 T^8 - 406 S^{10} T^8 + 21 S^{11} T^8 + 16 S^{12} T^8 - 19 S^3 T^9 + 21 S^4 T^9 + 355 S^5 T^9 - 662 S^6 T^9 + \\
& 189 S^7 T^9 + 189 S^8 T^9 - 662 S^9 T^9 + 355 S^{10} T^9 + 21 S^{11} T^9 - 19 S^{12} T^9 + 16 S^4 T^{10} - \\
& 63 S^5 T^{10} - 66 S^6 T^{10} + 355 S^7 T^{10} - 406 S^8 T^{10} + 355 S^9 T^{10} - 66 S^{10} T^{10} - 63 S^{11} T^{10} + \\
& 16 S^{12} T^{10} - 7 S^5 T^{11} + 42 S^6 T^{11} - 63 S^7 T^{11} + 21 S^8 T^{11} + 21 S^9 T^{11} - 63 S^{10} T^{11} + 42 S^{11} T^{11} - \\
& 7 S^{12} T^{11} + S^6 T^{12} - 7 S^7 T^{12} + 16 S^8 T^{12} - 19 S^9 T^{12} + 16 S^{10} T^{12} - 7 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 71] \rightarrow & -\frac{1}{S^4 T^4} \left(5 - 15 S + 21 S^2 - 15 S^3 + 5 S^4 - 15 T + 32 S T - 19 S^2 T - 19 S^3 T + 32 S^4 T - 15 S^5 T + \right. \\
& 21 T^2 - 19 S T^2 - 42 S^2 T^2 + 84 S^3 T^2 - 42 S^4 T^2 - 19 S^5 T^2 + 21 S^6 T^2 - 15 T^3 - 19 S T^3 + 84 S^2 T^3 - \\
& 48 S^3 T^3 - 48 S^4 T^3 + 84 S^5 T^3 - 19 S^6 T^3 - 15 S^7 T^3 + 5 T^4 + 32 S T^4 - 42 S^2 T^4 - 48 S^3 T^4 + 96 S^4 T^4 - \\
& 48 S^5 T^4 - 42 S^6 T^4 + 32 S^7 T^4 + 5 S^8 T^4 - 15 S T^5 - 19 S^2 T^5 + 84 S^3 T^5 - 48 S^4 T^5 - 48 S^5 T^5 + 84 S^6 T^5 - \\
& 19 S^7 T^5 - 15 S^8 T^5 + 21 S^2 T^6 - 19 S^3 T^6 - 42 S^4 T^6 + 84 S^5 T^6 - 42 S^6 T^6 - 19 S^7 T^6 + 21 S^8 T^6 - 15 S^3 T^7 + \\
& \left. 32 S^4 T^7 - 19 S^5 T^7 - 19 S^6 T^7 + 32 S^7 T^7 - 15 S^8 T^7 + 5 S^4 T^8 - 15 S^5 T^8 + 21 S^6 T^8 - 15 S^7 T^8 + 5 S^8 T^8 \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 72] \rightarrow & -\frac{1}{S^6 T^6} \left(17 - 75 S + 130 S^2 - 153 S^3 + 130 S^4 - 75 S^5 + 17 S^6 - 75 T + 258 S T - \right. \\
& 249 S^2 T + 105 S^3 T + 105 S^4 T - 249 S^5 T + 258 S^6 T - 75 S^7 T + 130 T^2 - 249 S T^2 - 328 S^2 T^2 + \\
& 828 S^3 T^2 - 1058 S^4 T^2 + 828 S^5 T^2 - 328 S^6 T^2 - 249 S^7 T^2 + 130 S^8 T^2 - 153 T^3 + 105 S T^3 + 828 S^2 T^3 - \\
& 804 S^3 T^3 + 370 S^4 T^3 + 370 S^5 T^3 - 804 S^6 T^3 + 828 S^7 T^3 + 105 S^8 T^3 - 153 S^9 T^3 + 130 T^4 + 105 S T^4 - \\
& 1058 S^2 T^4 + 370 S^3 T^4 + 31 S^4 T^4 - 329 S^5 T^4 + 31 S^6 T^4 + 370 S^7 T^4 - 1058 S^8 T^4 + 105 S^9 T^4 + \\
& 130 S^{10} T^4 - 75 T^5 - 249 S T^5 + 828 S^2 T^5 + 370 S^3 T^5 - 329 S^4 T^5 + 238 S^5 T^5 + 238 S^6 T^5 - 329 S^7 T^5 + \\
& 370 S^8 T^5 + 828 S^9 T^5 - 249 S^{10} T^5 - 75 S^{11} T^5 + 17 T^6 + 258 S T^6 - 328 S^2 T^6 - 804 S^3 T^6 + 31 S^4 T^6 + \\
& 238 S^5 T^6 - 540 S^6 T^6 + 238 S^7 T^6 + 31 S^8 T^6 - 804 S^9 T^6 - 328 S^{10} T^6 + 258 S^{11} T^6 + 17 S^{12} T^6 - \\
& 75 S T^7 - 249 S^2 T^7 + 828 S^3 T^7 + 370 S^4 T^7 - 329 S^5 T^7 + 238 S^6 T^7 + 238 S^7 T^7 - 329 S^8 T^7 + 370 S^9 T^7 + \\
& 828 S^{10} T^7 - 249 S^{11} T^7 - 75 S^{12} T^7 + 130 S^2 T^8 + 105 S^3 T^8 - 1058 S^4 T^8 + 370 S^5 T^8 + 31 S^6 T^8 - \\
& 329 S^7 T^8 + 31 S^8 T^8 + 370 S^9 T^8 - 1058 S^{10} T^8 + 105 S^{11} T^8 + 130 S^{12} T^8 - 153 S^3 T^9 + 105 S^4 T^9 + \\
& 828 S^5 T^9 - 804 S^6 T^9 + 370 S^7 T^9 + 370 S^8 T^9 - 804 S^9 T^9 + 828 S^{10} T^9 + 105 S^{11} T^9 - 153 S^{12} T^9 + \\
& 130 S^4 T^{10} - 249 S^5 T^{10} - 328 S^6 T^{10} + 828 S^7 T^{10} - 1058 S^8 T^{10} + 828 S^9 T^{10} - 328 S^{10} T^{10} - 249 S^{11} T^{10} + \\
& 130 S^{12} T^{10} - 75 S^5 T^{11} + 258 S^6 T^{11} - 249 S^7 T^{11} + 105 S^8 T^{11} + 105 S^9 T^{11} - 249 S^{10} T^{11} + 258 S^{11} T^{11} - \\
& \left. 75 S^{12} T^{11} + 17 S^6 T^{12} - 75 S^7 T^{12} + 130 S^8 T^{12} - 153 S^9 T^{12} + 130 S^{10} T^{12} - 75 S^{11} T^{12} + 17 S^{12} T^{12} \right),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 73] \rightarrow & -\frac{1}{S^6 T^6} \left(1 - 7 S + 20 S^2 - 27 S^3 + 20 S^4 - 7 S^5 + S^6 - 7 T + 42 S T - 91 S^2 T + \right. \\
& 49 S^3 T + 49 S^4 T - 91 S^5 T + 42 S^6 T - 7 S^7 T + 20 T^2 - 91 S T^2 + 76 S^2 T^2 + 307 S^3 T^2 - 534 S^4 T^2 + \\
& 307 S^5 T^2 + 76 S^6 T^2 - 91 S^7 T^2 + 20 S^8 T^2 - 27 T^3 + 49 S T^3 + 307 S^2 T^3 - 1142 S^3 T^3 + 645 S^4 T^3 + \\
& 645 S^5 T^3 - 1142 S^6 T^3 + 307 S^7 T^3 + 49 S^8 T^3 - 27 S^9 T^3 + 20 T^4 + 49 S T^4 - 534 S^2 T^4 + \\
& 645 S^3 T^4 + 2019 S^4 T^4 - 3595 S^5 T^4 + 2019 S^6 T^4 + 645 S^7 T^4 - 534 S^8 T^4 + 49 S^9 T^4 + 20 S^{10} T^4 - \\
& 7 T^5 - 91 S T^5 + 307 S^2 T^5 + 645 S^3 T^5 - 3595 S^4 T^5 + 2086 S^5 T^5 + 2086 S^6 T^5 - 3595 S^7 T^5 + \\
& 645 S^8 T^5 + 307 S^9 T^5 - 91 S^{10} T^5 - 7 S^{11} T^5 + T^6 + 42 S T^6 + 76 S^2 T^6 - 1142 S^3 T^6 + 2019 S^4 T^6 + \\
& 2086 S^5 T^6 - 4632 S^6 T^6 + 2086 S^7 T^6 + 2019 S^8 T^6 - 1142 S^9 T^6 + 76 S^{10} T^6 + 42 S^{11} T^6 + S^{12} T^6 - \\
& 7 S T^7 - 91 S^2 T^7 + 307 S^3 T^7 + 645 S^4 T^7 - 3595 S^5 T^7 + 2086 S^6 T^7 + 2086 S^7 T^7 - 3595 S^8 T^7 + \\
& 645 S^9 T^7 + 307 S^{10} T^7 - 91 S^{11} T^7 - 7 S^{12} T^7 + 20 S^2 T^8 + 49 S^3 T^8 - 534 S^4 T^8 + 645 S^5 T^8 + \\
& 2019 S^6 T^8 - 3595 S^7 T^8 + 2019 S^8 T^8 + 645 S^9 T^8 - 534 S^{10} T^8 + 49 S^{11} T^8 + 20 S^{12} T^8 - 27 S^3 T^9 + \\
& 49 S^4 T^9 + 307 S^5 T^9 - 1142 S^6 T^9 + 645 S^7 T^9 + 645 S^8 T^9 - 1142 S^9 T^9 + 307 S^{10} T^9 + 49 S^{11} T^9 - \\
& 27 S^{12} T^9 + 20 S^4 T^{10} - 91 S^5 T^{10} + 76 S^6 T^{10} + 307 S^7 T^{10} - 534 S^8 T^{10} + 307 S^9 T^{10} + 76 S^{10} T^{10} - \\
& 91 S^{11} T^{10} + 20 S^{12} T^{10} - 7 S^5 T^{11} + 42 S^6 T^{11} - 91 S^7 T^{11} + 49 S^8 T^{11} + 49 S^9 T^{11} - 91 S^{10} T^{11} + \\
& \left. 42 S^{11} T^{11} - 7 S^{12} T^{11} + S^6 T^{12} - 7 S^7 T^{12} + 20 S^8 T^{12} - 27 S^9 T^{12} + 20 S^{10} T^{12} - 7 S^{11} T^{12} + S^{12} T^{12} \right),
\end{aligned}$$

$$\text{Knot}[10, 74] \rightarrow \frac{1}{S^4 T^4} 2 \left(40 - 156 S + 220 S^2 - 156 S^3 + 40 S^4 - 156 T + 454 S T - 252 S^2 T - 252 S^3 T + \right. \\ 454 S^4 T - 156 S^5 T + 220 T^2 - 252 S T^2 - 930 S^2 T^2 + 1631 S^3 T^2 - 930 S^4 T^2 - 252 S^5 T^2 + 220 S^6 T^2 - \\ 156 T^3 - 252 S T^3 + 1631 S^2 T^3 - 954 S^3 T^3 - 954 S^4 T^3 + 1631 S^5 T^3 - 252 S^6 T^3 - 156 S^7 T^3 + 40 T^4 + \\ 454 S T^4 - 930 S^2 T^4 - 954 S^3 T^4 + 2130 S^4 T^4 - 954 S^5 T^4 - 930 S^6 T^4 + 454 S^7 T^4 + 40 S^8 T^4 - 156 S T^5 - \\ 252 S^2 T^5 + 1631 S^3 T^5 - 954 S^4 T^5 - 954 S^5 T^5 + 1631 S^6 T^5 - 252 S^7 T^5 - 156 S^8 T^5 + 220 S^2 T^6 - \\ 252 S^3 T^6 - 930 S^4 T^6 + 1631 S^5 T^6 - 930 S^6 T^6 - 252 S^7 T^6 + 220 S^8 T^6 - 156 S^3 T^7 + 454 S^4 T^7 - \\ \left. 252 S^5 T^7 - 252 S^6 T^7 + 454 S^7 T^7 - 156 S^8 T^7 + 40 S^4 T^8 - 156 S^5 T^8 + 220 S^6 T^8 - 156 S^7 T^8 + 40 S^8 T^8 \right),$$

$$\text{Knot}[10, 75] \rightarrow \frac{1}{S^4 T^4} \left(2 - 8 S + 16 S^2 - 8 S^3 + 2 S^4 - 8 T + 18 S T - 32 S^2 T - 32 S^3 T + 18 S^4 T - \right. \\ 8 S^5 T + 16 T^2 - 32 S T^2 + 75 S^2 T^2 + 75 S^3 T^2 + 75 S^4 T^2 - 32 S^5 T^2 + 16 S^6 T^2 - 8 T^3 - \\ 32 S T^3 + 75 S^2 T^3 - 256 S^3 T^3 - 256 S^4 T^3 + 75 S^5 T^3 - 32 S^6 T^3 - 8 S^7 T^3 + 2 T^4 + 18 S T^4 + \\ 75 S^2 T^4 - 256 S^3 T^4 + 900 S^4 T^4 - 256 S^5 T^4 + 75 S^6 T^4 + 18 S^7 T^4 + 2 S^8 T^4 - 8 S T^5 - \\ 32 S^2 T^5 + 75 S^3 T^5 - 256 S^4 T^5 - 256 S^5 T^5 + 75 S^6 T^5 - 32 S^7 T^5 - 8 S^8 T^5 + 16 S^2 T^6 - \\ 32 S^3 T^6 + 75 S^4 T^6 + 75 S^5 T^6 + 75 S^6 T^6 - 32 S^7 T^6 + 16 S^8 T^6 - 8 S^3 T^7 + 18 S^4 T^7 - \\ \left. 32 S^5 T^7 - 32 S^6 T^7 + 18 S^7 T^7 - 8 S^8 T^7 + 2 S^4 T^8 - 8 S^5 T^8 + 16 S^6 T^8 - 8 S^7 T^8 + 2 S^8 T^8 \right),$$

$$\text{Knot}[10, 76] \rightarrow -\frac{1}{S^6 T^6} \left(17 - 59 S + 100 S^2 - 125 S^3 + 100 S^4 - 59 S^5 + 17 S^6 - 59 T + 146 S T - \right. \\ 143 S^2 T + 87 S^3 T + 87 S^4 T - 143 S^5 T + 146 S^6 T - 59 S^7 T + 100 T^2 - 143 S T^2 - 35 S^2 T^2 + 168 S^3 T^2 - \\ 381 S^4 T^2 + 168 S^5 T^2 - 35 S^6 T^2 - 143 S^7 T^2 + 100 S^8 T^2 - 125 T^3 + 87 S T^3 + 168 S^2 T^3 - 144 S^3 T^3 + \\ 232 S^4 T^3 + 232 S^5 T^3 - 144 S^6 T^3 + 168 S^7 T^3 + 87 S^8 T^3 - 125 S^9 T^3 + 100 T^4 + 87 S T^4 - 381 S^2 T^4 + \\ 232 S^3 T^4 - 345 S^4 T^4 - 103 S^5 T^4 - 345 S^6 T^4 + 232 S^7 T^4 - 381 S^8 T^4 + 87 S^9 T^4 + 100 S^{10} T^4 - \\ 59 T^5 - 143 S T^5 + 168 S^2 T^5 + 232 S^3 T^5 - 103 S^4 T^5 + 378 S^5 T^5 + 378 S^6 T^5 - 103 S^7 T^5 + 232 S^8 T^5 + \\ 168 S^9 T^5 - 143 S^{10} T^5 - 59 S^{11} T^5 + 17 T^6 + 146 S T^6 - 35 S^2 T^6 - 144 S^3 T^6 - 345 S^4 T^6 + 378 S^5 T^6 - \\ 1068 S^6 T^6 + 378 S^7 T^6 - 345 S^8 T^6 - 144 S^9 T^6 - 35 S^{10} T^6 + 146 S^{11} T^6 + 17 S^{12} T^6 - 59 S T^7 - \\ 143 S^2 T^7 + 168 S^3 T^7 + 232 S^4 T^7 - 103 S^5 T^7 + 378 S^6 T^7 + 378 S^7 T^7 - 103 S^8 T^7 + 232 S^9 T^7 + \\ 168 S^{10} T^7 - 143 S^{11} T^7 - 59 S^{12} T^7 + 100 S^2 T^8 + 87 S^3 T^8 - 381 S^4 T^8 + 232 S^5 T^8 - 345 S^6 T^8 - \\ 103 S^7 T^8 - 345 S^8 T^8 + 232 S^9 T^8 - 381 S^{10} T^8 + 87 S^{11} T^8 + 100 S^{12} T^8 - 125 S^3 T^9 + 87 S^4 T^9 + \\ 168 S^5 T^9 - 144 S^6 T^9 + 232 S^7 T^9 + 232 S^8 T^9 - 144 S^9 T^9 + 168 S^{10} T^9 + 87 S^{11} T^9 - 125 S^{12} T^9 + \\ 100 S^4 T^{10} - 143 S^5 T^{10} - 35 S^6 T^{10} + 168 S^7 T^{10} - 381 S^8 T^{10} + 168 S^9 T^{10} - 35 S^{10} T^{10} - 143 S^{11} T^{10} + \\ 100 S^{12} T^{10} - 59 S^5 T^{11} + 146 S^6 T^{11} - 143 S^7 T^{11} + 87 S^8 T^{11} + 87 S^9 T^{11} - 143 S^{10} T^{11} + 146 S^{11} T^{11} - \\ 59 S^{12} T^{11} + 17 S^6 T^{12} - 59 S^7 T^{12} + 100 S^8 T^{12} - 125 S^9 T^{12} + 100 S^{10} T^{12} - 59 S^{11} T^{12} + 17 S^{12} T^{12} \right),$$

$$\text{Knot}[10, 77] \rightarrow \frac{1}{S^6 T^6} \left(9 - 31 S + 62 S^2 - 75 S^3 + 62 S^4 - 31 S^5 + 9 S^6 - 31 T + 76 S T - 107 S^2 T + \right. \\ 45 S^3 T + 45 S^4 T - 107 S^5 T + 76 S^6 T - 31 S^7 T + 62 T^2 - 107 S T^2 + 118 S^2 T^2 + 20 S^3 T^2 - \\ 62 S^4 T^2 + 20 S^5 T^2 + 118 S^6 T^2 - 107 S^7 T^2 + 62 S^8 T^2 - 75 T^3 + 45 S T^3 + 20 S^2 T^3 - \\ 224 S^3 T^3 + 85 S^4 T^3 + 85 S^5 T^3 - 224 S^6 T^3 + 20 S^7 T^3 + 45 S^8 T^3 - 75 S^9 T^3 + 62 T^4 + \\ 45 S T^4 - 62 S^2 T^4 + 85 S^3 T^4 + 398 S^4 T^4 - 532 S^5 T^4 + 398 S^6 T^4 + 85 S^7 T^4 - 62 S^8 T^4 + \\ 45 S^9 T^4 + 62 S^{10} T^4 - 31 T^5 - 107 S T^5 + 20 S^2 T^5 + 85 S^3 T^5 - 532 S^4 T^5 + 206 S^5 T^5 + \\ 206 S^6 T^5 - 532 S^7 T^5 + 85 S^8 T^5 + 20 S^9 T^5 - 107 S^{10} T^5 - 31 S^{11} T^5 + 9 T^6 + 76 S T^6 + \\ 118 S^2 T^6 - 224 S^3 T^6 + 398 S^4 T^6 + 206 S^5 T^6 - 372 S^6 T^6 + 206 S^7 T^6 + 398 S^8 T^6 - \\ 224 S^9 T^6 + 118 S^{10} T^6 + 76 S^{11} T^6 + 9 S^{12} T^6 - 31 S T^7 - 107 S^2 T^7 + 20 S^3 T^7 + 85 S^4 T^7 - \\ 532 S^5 T^7 + 206 S^6 T^7 + 206 S^7 T^7 - 532 S^8 T^7 + 85 S^9 T^7 + 20 S^{10} T^7 - 107 S^{11} T^7 - \\ 31 S^{12} T^7 + 62 S^2 T^8 + 45 S^3 T^8 - 62 S^4 T^8 + 85 S^5 T^8 + 398 S^6 T^8 - 532 S^7 T^8 + 398 S^8 T^8 + \\ 85 S^9 T^8 - 62 S^{10} T^8 + 45 S^{11} T^8 + 62 S^{12} T^8 - 75 S^3 T^9 + 45 S^4 T^9 + 20 S^5 T^9 - 224 S^6 T^9 + \\ 85 S^7 T^9 + 85 S^8 T^9 - 224 S^9 T^9 + 20 S^{10} T^9 + 45 S^{11} T^9 - 75 S^{12} T^9 + 62 S^4 T^{10} - 107 S^5 T^{10} +$$

$$\begin{aligned}
& 118 S^6 T^{10} + 20 S^7 T^{10} - 62 S^8 T^{10} + 20 S^9 T^{10} + 118 S^{10} T^{10} - 107 S^{11} T^{10} + 62 S^{12} T^{10} - \\
& 31 S^5 T^{11} + 76 S^6 T^{11} - 107 S^7 T^{11} + 45 S^8 T^{11} + 45 S^9 T^{11} - 107 S^{10} T^{11} + 76 S^{11} T^{11} - \\
& 31 S^{12} T^{11} + 9 S^6 T^{12} - 31 S^7 T^{12} + 62 S^8 T^{12} - 75 S^9 T^{12} + 62 S^{10} T^{12} - 31 S^{11} T^{12} + 9 S^{12} T^{12} \Big), \\
& \text{Knot}[10, 78] \rightarrow \frac{1}{S^6 T^6} \Big(2 - 14 S + 32 S^2 - 42 S^3 + 32 S^4 - 14 S^5 + 2 S^6 - 14 T + 84 S T - 126 S^2 T + \\
& 70 S^3 T + 70 S^4 T - 126 S^5 T + 84 S^6 T - 14 S^7 T + 32 T^2 - 126 S T^2 - 121 S^2 T^2 + 616 S^3 T^2 - \\
& 957 S^4 T^2 + 616 S^5 T^2 - 121 S^6 T^2 - 126 S^7 T^2 + 32 S^8 T^2 - 42 T^3 + 70 S T^3 + 616 S^2 T^3 - \\
& 1098 S^3 T^3 + 693 S^4 T^3 + 693 S^5 T^3 - 1098 S^6 T^3 + 616 S^7 T^3 + 70 S^8 T^3 - 42 S^9 T^3 + 32 T^4 + \\
& 70 S T^4 - 957 S^2 T^4 + 693 S^3 T^4 + 583 S^4 T^4 - 1825 S^5 T^4 + 583 S^6 T^4 + 693 S^7 T^4 - 957 S^8 T^4 + \\
& 70 S^9 T^4 + 32 S^{10} T^4 - 14 T^5 - 126 S T^5 + 616 S^2 T^5 + 693 S^3 T^5 - 1825 S^4 T^5 + 1392 S^5 T^5 + \\
& 1392 S^6 T^5 - 1825 S^7 T^5 + 693 S^8 T^5 + 616 S^9 T^5 - 126 S^{10} T^5 - 14 S^{11} T^5 + 2 T^6 + 84 S T^6 - \\
& 121 S^2 T^6 - 1098 S^3 T^6 + 583 S^4 T^6 + 1392 S^5 T^6 - 3360 S^6 T^6 + 1392 S^7 T^6 + 583 S^8 T^6 - 1098 S^9 T^6 - \\
& 121 S^{10} T^6 + 84 S^{11} T^6 + 2 S^{12} T^6 - 14 S T^7 - 126 S^2 T^7 + 616 S^3 T^7 + 693 S^4 T^7 - 1825 S^5 T^7 + \\
& 1392 S^6 T^7 + 1392 S^7 T^7 - 1825 S^8 T^7 + 693 S^9 T^7 + 616 S^{10} T^7 - 126 S^{11} T^7 - 14 S^{12} T^7 + \\
& 32 S^2 T^8 + 70 S^3 T^8 - 957 S^4 T^8 + 693 S^5 T^8 + 583 S^6 T^8 - 1825 S^7 T^8 + 583 S^8 T^8 + 693 S^9 T^8 - \\
& 957 S^{10} T^8 + 70 S^{11} T^8 + 32 S^{12} T^8 - 42 S^3 T^9 + 70 S^4 T^9 + 616 S^5 T^9 - 1098 S^6 T^9 + 693 S^7 T^9 + \\
& 693 S^8 T^9 - 1098 S^9 T^9 + 616 S^{10} T^9 + 70 S^{11} T^9 - 42 S^{12} T^9 + 32 S^4 T^{10} - 126 S^5 T^{10} - 121 S^6 T^{10} + \\
& 616 S^7 T^{10} - 957 S^8 T^{10} + 616 S^9 T^{10} - 121 S^{10} T^{10} - 126 S^{11} T^{10} + 32 S^{12} T^{10} - 14 S^5 T^{11} + \\
& 84 S^6 T^{11} - 126 S^7 T^{11} + 70 S^8 T^{11} + 70 S^9 T^{11} - 126 S^{10} T^{11} + 84 S^{11} T^{11} - 14 S^{12} T^{11} + 2 S^6 T^{12} - \\
& 14 S^7 T^{12} + 32 S^8 T^{12} - 42 S^9 T^{12} + 32 S^{10} T^{12} - 14 S^{11} T^{12} + 2 S^{12} T^{12} \Big), \text{Knot}[10, 79] \rightarrow 0, \\
& \text{Knot}[10, 80] \rightarrow -\frac{1}{S^6 T^6} \Big(84 - 246 S + 404 S^2 - 454 S^3 + 404 S^4 - 246 S^5 + 84 S^6 - 246 T + 482 S T - \\
& 477 S^2 T + 155 S^3 T + 155 S^4 T - 477 S^5 T + 482 S^6 T - 246 S^7 T + 404 T^2 - 477 S T^2 + 204 S^2 T^2 + \\
& 225 S^3 T^2 - 198 S^4 T^2 + 225 S^5 T^2 + 204 S^6 T^2 - 477 S^7 T^2 + 404 S^8 T^2 - 454 T^3 + 155 S T^3 + 225 S^2 T^3 - \\
& 436 S^3 T^3 - 19 S^4 T^3 - 19 S^5 T^3 - 436 S^6 T^3 + 225 S^7 T^3 + 155 S^8 T^3 - 454 S^9 T^3 + 404 T^4 + 155 S T^4 - \\
& 198 S^2 T^4 - 19 S^3 T^4 + 662 S^4 T^4 - 328 S^5 T^4 + 662 S^6 T^4 - 19 S^7 T^4 - 198 S^8 T^4 + 155 S^9 T^4 + \\
& 404 S^{10} T^4 - 246 T^5 - 477 S T^5 + 225 S^2 T^5 - 19 S^3 T^5 - 328 S^4 T^5 - 244 S^5 T^5 - 244 S^6 T^5 - 328 S^7 T^5 - \\
& 19 S^8 T^5 + 225 S^9 T^5 - 477 S^{10} T^5 - 246 S^{11} T^5 + 84 T^6 + 482 S T^6 + 204 S^2 T^6 - 436 S^3 T^6 + 662 S^4 T^6 - \\
& 244 S^5 T^6 + 864 S^6 T^6 - 244 S^7 T^6 + 662 S^8 T^6 - 436 S^9 T^6 + 204 S^{10} T^6 + 482 S^{11} T^6 + 84 S^{12} T^6 - \\
& 246 S T^7 - 477 S^2 T^7 + 225 S^3 T^7 - 19 S^4 T^7 - 328 S^5 T^7 - 244 S^6 T^7 - 244 S^7 T^7 - 328 S^8 T^7 - 19 S^9 T^7 + \\
& 225 S^{10} T^7 - 477 S^{11} T^7 - 246 S^{12} T^7 + 404 S^2 T^8 + 155 S^3 T^8 - 198 S^4 T^8 - 19 S^5 T^8 + 662 S^6 T^8 - \\
& 328 S^7 T^8 + 662 S^8 T^8 - 19 S^9 T^8 - 198 S^{10} T^8 + 155 S^{11} T^8 + 404 S^{12} T^8 - 454 S^3 T^9 + 155 S^4 T^9 + \\
& 225 S^5 T^9 - 436 S^6 T^9 - 19 S^7 T^9 - 19 S^8 T^9 - 436 S^9 T^9 + 225 S^{10} T^9 + 155 S^{11} T^9 - 454 S^{12} T^9 + \\
& 404 S^4 T^{10} - 477 S^5 T^{10} + 204 S^6 T^{10} + 225 S^7 T^{10} - 198 S^8 T^{10} + 225 S^9 T^{10} + 204 S^{10} T^{10} - 477 S^{11} T^{10} + \\
& 404 S^{12} T^{10} - 246 S^5 T^{11} + 482 S^6 T^{11} - 477 S^7 T^{11} + 155 S^8 T^{11} + 155 S^9 T^{11} - 477 S^{10} T^{11} + 482 S^{11} T^{11} - \\
& 246 S^{12} T^{11} + 84 S^6 T^{12} - 246 S^7 T^{12} + 404 S^8 T^{12} - 454 S^9 T^{12} + 404 S^{10} T^{12} - 246 S^{11} T^{12} + 84 S^{12} T^{12} \Big), \\
& \text{Knot}[10, 81] \rightarrow 0, \text{Knot}[10, 82] \rightarrow \frac{1}{S^8 T^8} \Big(1 - 4 S + 8 S^2 - 12 S^3 + 13 S^4 - 12 S^5 + 8 S^6 - \\
& 4 S^7 + S^8 - 4 T + 12 S T - 16 S^2 T + 16 S^3 T - 4 S^4 T - 4 S^5 T + 16 S^6 T - 16 S^7 T + 12 S^8 T - \\
& 4 S^9 T + 8 T^2 - 16 S T^2 + 8 S^2 T^2 + S^3 T^2 - 29 S^4 T^2 + 24 S^5 T^2 - 29 S^6 T^2 + S^7 T^2 + 8 S^8 T^2 - \\
& 16 S^9 T^2 + 8 S^{10} T^2 - 12 T^3 + 16 S T^3 + S^2 T^3 - 2 S^3 T^3 + 37 S^4 T^3 + 3 S^5 T^3 + 3 S^6 T^3 + \\
& 37 S^7 T^3 - 2 S^8 T^3 + S^9 T^3 + 16 S^{10} T^3 - 12 S^{11} T^3 + 13 T^4 - 4 S T^4 - 29 S^2 T^4 + 37 S^3 T^4 - \\
& 101 S^4 T^4 + 37 S^5 T^4 - 73 S^6 T^4 + 37 S^7 T^4 - 101 S^8 T^4 + 37 S^9 T^4 - 29 S^{10} T^4 - 4 S^{11} T^4 + \\
& 13 S^{12} T^4 - 12 T^5 - 4 S T^5 + 24 S^2 T^5 + 3 S^3 T^5 + 37 S^4 T^5 + 68 S^5 T^5 + 8 S^6 T^5 + 8 S^7 T^5 + \\
& 68 S^8 T^5 + 37 S^9 T^5 + 3 S^{10} T^5 + 24 S^{11} T^5 - 4 S^{12} T^5 - 12 S^{13} T^5 + 8 T^6 + 16 S T^6 - 29 S^2 T^6 + \\
& 3 S^3 T^6 - 73 S^4 T^6 + 8 S^5 T^6 - 154 S^6 T^6 + 138 S^7 T^6 - 154 S^8 T^6 + 8 S^9 T^6 - 73 S^{10} T^6 +
\end{aligned}$$

$$\begin{aligned}
& 3 S^{11} T^6 - 29 S^{12} T^6 + 16 S^{13} T^6 + 8 S^{14} T^6 - 4 T^7 - 16 S T^7 + S^2 T^7 + 37 S^3 T^7 + 37 S^4 T^7 + \\
& 8 S^5 T^7 + 138 S^6 T^7 - 36 S^7 T^7 - 36 S^8 T^7 + 138 S^9 T^7 + 8 S^{10} T^7 + 37 S^{11} T^7 + 37 S^{12} T^7 + \\
& S^{13} T^7 - 16 S^{14} T^7 - 4 S^{15} T^7 + T^8 + 12 S T^8 + 8 S^2 T^8 - 2 S^3 T^8 - 101 S^4 T^8 + 68 S^5 T^8 - \\
& 154 S^6 T^8 - 36 S^7 T^8 + 72 S^8 T^8 - 36 S^9 T^8 - 154 S^{10} T^8 + 68 S^{11} T^8 - 101 S^{12} T^8 - 2 S^{13} T^8 + \\
& 8 S^{14} T^8 + 12 S^{15} T^8 + S^{16} T^8 - 4 S T^9 - 16 S^2 T^9 + S^3 T^9 + 37 S^4 T^9 + 37 S^5 T^9 + 8 S^6 T^9 + \\
& 138 S^7 T^9 - 36 S^8 T^9 - 36 S^9 T^9 + 138 S^{10} T^9 + 8 S^{11} T^9 + 37 S^{12} T^9 + 37 S^{13} T^9 + S^{14} T^9 - \\
& 16 S^{15} T^9 - 4 S^{16} T^9 + 8 S^2 T^{10} + 16 S^3 T^{10} - 29 S^4 T^{10} + 3 S^5 T^{10} - 73 S^6 T^{10} + 8 S^7 T^{10} - \\
& 154 S^8 T^{10} + 138 S^9 T^{10} - 154 S^{10} T^{10} + 8 S^{11} T^{10} - 73 S^{12} T^{10} + 3 S^{13} T^{10} - 29 S^{14} T^{10} + \\
& 16 S^{15} T^{10} + 8 S^{16} T^{10} - 12 S^3 T^{11} - 4 S^4 T^{11} + 24 S^5 T^{11} + 3 S^6 T^{11} + 37 S^7 T^{11} + 68 S^8 T^{11} + \\
& 8 S^9 T^{11} + 8 S^{10} T^{11} + 68 S^{11} T^{11} + 37 S^{12} T^{11} + 3 S^{13} T^{11} + 24 S^{14} T^{11} - 4 S^{15} T^{11} - 12 S^{16} T^{11} + \\
& 13 S^4 T^{12} - 4 S^5 T^{12} - 29 S^6 T^{12} + 37 S^7 T^{12} - 101 S^8 T^{12} + 37 S^9 T^{12} - 73 S^{10} T^{12} + 37 S^{11} T^{12} - \\
& 101 S^{12} T^{12} + 37 S^{13} T^{12} - 29 S^{14} T^{12} - 4 S^{15} T^{12} + 13 S^{16} T^{12} - 12 S^5 T^{13} + 16 S^6 T^{13} + \\
& S^7 T^{13} - 2 S^8 T^{13} + 37 S^9 T^{13} + 3 S^{10} T^{13} + 3 S^{11} T^{13} + 37 S^{12} T^{13} - 2 S^{13} T^{13} + S^{14} T^{13} + \\
& 16 S^{15} T^{13} - 12 S^{16} T^{13} + 8 S^6 T^{14} - 16 S^7 T^{14} + 8 S^8 T^{14} + S^9 T^{14} - 29 S^{10} T^{14} + 24 S^{11} T^{14} - \\
& 29 S^{12} T^{14} + S^{13} T^{14} + 8 S^{14} T^{14} - 16 S^{15} T^{14} + 8 S^{16} T^{14} - 4 S^7 T^{15} + 12 S^8 T^{15} - 16 S^9 T^{15} + \\
& 16 S^{10} T^{15} - 4 S^{11} T^{15} - 4 S^{12} T^{15} + 16 S^{13} T^{15} - 16 S^{14} T^{15} + 12 S^{15} T^{15} - 4 S^{16} T^{15} + S^8 T^{16} - \\
& 4 S^9 T^{16} + 8 S^{10} T^{16} - 12 S^{11} T^{16} + 13 S^{12} T^{16} - 12 S^{13} T^{16} + 8 S^{14} T^{16} - 4 S^{15} T^{16} + S^{16} T^{16} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 83] & \rightarrow \frac{1}{S^6 T^6} \Big(9 - 40 S + 84 S^2 - 101 S^3 + 84 S^4 - 40 S^5 + 9 S^6 - 40 T + 138 S T - \\
& 196 S^2 T + 76 S^3 T + 76 S^4 T - 196 S^5 T + 138 S^6 T - 40 S^7 T + 84 T^2 - 196 S T^2 + 67 S^2 T^2 + \\
& 382 S^3 T^2 - 491 S^4 T^2 + 382 S^5 T^2 + 67 S^6 T^2 - 196 S^7 T^2 + 84 S^8 T^2 - 101 T^3 + 76 S T^3 + \\
& 382 S^2 T^3 - 880 S^3 T^3 + 289 S^4 T^3 + 289 S^5 T^3 - 880 S^6 T^3 + 382 S^7 T^3 + 76 S^8 T^3 - 101 S^9 T^3 + \\
& 84 T^4 + 76 S T^4 - 491 S^2 T^4 + 289 S^3 T^4 + 1189 S^4 T^4 - 1455 S^5 T^4 + 1189 S^6 T^4 + 289 S^7 T^4 - \\
& 491 S^8 T^4 + 76 S^9 T^4 + 84 S^{10} T^4 - 40 T^5 - 196 S T^5 + 382 S^2 T^5 + 289 S^3 T^5 - 1455 S^4 T^5 + \\
& 446 S^5 T^5 + 446 S^6 T^5 - 1455 S^7 T^5 + 289 S^8 T^5 + 382 S^9 T^5 - 196 S^{10} T^5 - 40 S^{11} T^5 + 9 T^6 + \\
& 138 S T^6 + 67 S^2 T^6 - 880 S^3 T^6 + 1189 S^4 T^6 + 446 S^5 T^6 - 672 S^6 T^6 + 446 S^7 T^6 + 1189 S^8 T^6 - \\
& 880 S^9 T^6 + 67 S^{10} T^6 + 138 S^{11} T^6 + 9 S^{12} T^6 - 40 S T^7 - 196 S^2 T^7 + 382 S^3 T^7 + 289 S^4 T^7 - \\
& 1455 S^5 T^7 + 446 S^6 T^7 + 446 S^7 T^7 - 1455 S^8 T^7 + 289 S^9 T^7 + 382 S^{10} T^7 - 196 S^{11} T^7 - \\
& 40 S^{12} T^7 + 84 S^2 T^8 + 76 S^3 T^8 - 491 S^4 T^8 + 289 S^5 T^8 + 1189 S^6 T^8 - 1455 S^7 T^8 + 1189 S^8 T^8 + \\
& 289 S^9 T^8 - 491 S^{10} T^8 + 76 S^{11} T^8 + 84 S^{12} T^8 - 101 S^3 T^9 + 76 S^4 T^9 + 382 S^5 T^9 - 880 S^6 T^9 + \\
& 289 S^7 T^9 + 289 S^8 T^9 - 880 S^9 T^9 + 382 S^{10} T^9 + 76 S^{11} T^9 - 101 S^{12} T^9 + 84 S^4 T^{10} - 196 S^5 T^{10} + \\
& 67 S^6 T^{10} + 382 S^7 T^{10} - 491 S^8 T^{10} + 382 S^9 T^{10} + 67 S^{10} T^{10} - 196 S^{11} T^{10} + 84 S^{12} T^{10} - \\
& 40 S^5 T^{11} + 138 S^6 T^{11} - 196 S^7 T^{11} + 76 S^8 T^{11} + 76 S^9 T^{11} - 196 S^{10} T^{11} + 138 S^{11} T^{11} - \\
& 40 S^{12} T^{11} + 9 S^6 T^{12} - 40 S^7 T^{12} + 84 S^8 T^{12} - 101 S^9 T^{12} + 84 S^{10} T^{12} - 40 S^{11} T^{12} + 9 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 84] & \rightarrow \frac{1}{S^6 T^6} \Big(9 - 40 S + 88 S^2 - 109 S^3 + 88 S^4 - 40 S^5 + 9 S^6 - 40 T + 138 S T - \\
& 214 S^2 T + 94 S^3 T + 94 S^4 T - 214 S^5 T + 138 S^6 T - 40 S^7 T + 88 T^2 - 214 S T^2 + 151 S^2 T^2 + \\
& 311 S^3 T^2 - 483 S^4 T^2 + 311 S^5 T^2 + 151 S^6 T^2 - 214 S^7 T^2 + 88 S^8 T^2 - 109 T^3 + 94 S T^3 + \\
& 311 S^2 T^3 - 942 S^3 T^3 + 390 S^4 T^3 + 390 S^5 T^3 - 942 S^6 T^3 + 311 S^7 T^3 + 94 S^8 T^3 - 109 S^9 T^3 + \\
& 88 T^4 + 94 S T^4 - 483 S^2 T^4 + 390 S^3 T^4 + 1349 S^4 T^4 - 1895 S^5 T^4 + 1349 S^6 T^4 + 390 S^7 T^4 - \\
& 483 S^8 T^4 + 94 S^9 T^4 + 88 S^{10} T^4 - 40 T^5 - 214 S T^5 + 311 S^2 T^5 + 390 S^3 T^5 - 1895 S^4 T^5 + \\
& 740 S^5 T^5 + 740 S^6 T^5 - 1895 S^7 T^5 + 390 S^8 T^5 + 311 S^9 T^5 - 214 S^{10} T^5 - 40 S^{11} T^5 + 9 T^6 + \\
& 138 S T^6 + 151 S^2 T^6 - 942 S^3 T^6 + 1349 S^4 T^6 + 740 S^5 T^6 - 1296 S^6 T^6 + 740 S^7 T^6 + 1349 S^8 T^6 - \\
& 942 S^9 T^6 + 151 S^{10} T^6 + 138 S^{11} T^6 + 9 S^{12} T^6 - 40 S T^7 - 214 S^2 T^7 + 311 S^3 T^7 + 390 S^4 T^7 - \\
& 1895 S^5 T^7 + 740 S^6 T^7 + 740 S^7 T^7 - 1895 S^8 T^7 + 390 S^9 T^7 + 311 S^{10} T^7 - 214 S^{11} T^7 - \\
& 40 S^{12} T^7 + 88 S^2 T^8 + 94 S^3 T^8 - 483 S^4 T^8 + 390 S^5 T^8 + 1349 S^6 T^8 - 1895 S^7 T^8 + 1349 S^8 T^8 +
\end{aligned}$$

$$\begin{aligned}
& 390 S^9 T^8 - 483 S^{10} T^8 + 94 S^{11} T^8 + 88 S^{12} T^8 - 109 S^3 T^9 + 94 S^4 T^9 + 311 S^5 T^9 - 942 S^6 T^9 + \\
& 390 S^7 T^9 + 390 S^8 T^9 - 942 S^9 T^9 + 311 S^{10} T^9 + 94 S^{11} T^9 - 109 S^{12} T^9 + 88 S^4 T^{10} - 214 S^5 T^{10} + \\
& 151 S^6 T^{10} + 311 S^7 T^{10} - 483 S^8 T^{10} + 311 S^9 T^{10} + 151 S^{10} T^{10} - 214 S^{11} T^{10} + 88 S^{12} T^{10} - \\
& 40 S^5 T^{11} + 138 S^6 T^{11} - 214 S^7 T^{11} + 94 S^8 T^{11} + 94 S^9 T^{11} - 214 S^{10} T^{11} + 138 S^{11} T^{11} - \\
& 40 S^{12} T^{11} + 9 S^6 T^{12} - 40 S^7 T^{12} + 88 S^8 T^{12} - 109 S^9 T^{12} + 88 S^{10} T^{12} - 40 S^{11} T^{12} + 9 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 85] \rightarrow & -\frac{1}{S^8 T^8} \Big(2 - 8 S + 16 S^2 - 20 S^3 + 22 S^4 - 20 S^5 + 16 S^6 - 8 S^7 + 2 S^8 - 8 T + 24 S T - \\
& 32 S^2 T + 16 S^3 T - 8 S^4 T - 8 S^5 T + 16 S^6 T - 32 S^7 T + 24 S^8 T - 8 S^9 T + 16 T^2 - 32 S T^2 + 14 S^2 T^2 + \\
& 39 S^3 T^2 - 29 S^4 T^2 + 46 S^5 T^2 - 29 S^6 T^2 + 39 S^7 T^2 + 14 S^8 T^2 - 32 S^9 T^2 + 16 S^{10} T^2 - 20 T^3 + 16 S T^3 + \\
& 39 S^2 T^3 - 92 S^3 T^3 + 8 S^4 T^3 - 27 S^5 T^3 - 27 S^6 T^3 + 8 S^7 T^3 - 92 S^8 T^3 + 39 S^9 T^3 + 16 S^{10} T^3 - 20 S^{11} T^3 + \\
& 22 T^4 - 8 S T^4 - 29 S^2 T^4 + 8 S^3 T^4 + 153 S^4 T^4 - 89 S^5 T^4 + 159 S^6 T^4 - 89 S^7 T^4 + 153 S^8 T^4 + 8 S^9 T^4 - \\
& 29 S^{10} T^4 - 8 S^{11} T^4 + 22 S^{12} T^4 - 20 T^5 - 8 S T^5 + 46 S^2 T^5 - 27 S^3 T^5 - 89 S^4 T^5 - 56 S^5 T^5 - 43 S^6 T^5 - \\
& 43 S^7 T^5 - 56 S^8 T^5 - 89 S^9 T^5 - 27 S^{10} T^5 + 46 S^{11} T^5 - 8 S^{12} T^5 - 20 S^{13} T^5 + 16 T^6 + 16 S T^6 - \\
& 29 S^2 T^6 - 27 S^3 T^6 + 159 S^4 T^6 - 43 S^5 T^6 + 205 S^6 T^6 - 107 S^7 T^6 + 205 S^8 T^6 - 43 S^9 T^6 + 159 S^{10} T^6 - \\
& 27 S^{11} T^6 - 29 S^{12} T^6 + 16 S^{13} T^6 + 16 S^{14} T^6 - 8 T^7 - 32 S T^7 + 39 S^2 T^7 + 8 S^3 T^7 - 89 S^4 T^7 - 43 S^5 T^7 - \\
& 107 S^6 T^7 - 38 S^7 T^7 - 38 S^8 T^7 - 107 S^9 T^7 - 43 S^{10} T^7 - 89 S^{11} T^7 + 8 S^{12} T^7 + 39 S^{13} T^7 - 32 S^{14} T^7 - \\
& 8 S^{15} T^7 + 2 T^8 + 24 S T^8 + 14 S^2 T^8 - 92 S^3 T^8 + 153 S^4 T^8 - 56 S^5 T^8 + 205 S^6 T^8 - 38 S^7 T^8 + 132 S^8 T^8 - \\
& 38 S^9 T^8 + 205 S^{10} T^8 - 56 S^{11} T^8 + 153 S^{12} T^8 - 92 S^{13} T^8 + 14 S^{14} T^8 + 24 S^{15} T^8 + 2 S^{16} T^8 - 8 S T^9 - \\
& 32 S^2 T^9 + 39 S^3 T^9 + 8 S^4 T^9 - 89 S^5 T^9 - 43 S^6 T^9 - 107 S^7 T^9 - 38 S^8 T^9 - 38 S^9 T^9 - 107 S^{10} T^9 - \\
& 43 S^{11} T^9 - 89 S^{12} T^9 + 8 S^{13} T^9 + 39 S^{14} T^9 - 32 S^{15} T^9 - 8 S^{16} T^9 + 16 S^2 T^{10} + 16 S^3 T^{10} - 29 S^4 T^{10} - \\
& 27 S^5 T^{10} + 159 S^6 T^{10} - 43 S^7 T^{10} + 205 S^8 T^{10} - 107 S^9 T^{10} + 205 S^{10} T^{10} - 43 S^{11} T^{10} + 159 S^{12} T^{10} - \\
& 27 S^{13} T^{10} - 29 S^{14} T^{10} + 16 S^{15} T^{10} + 16 S^{16} T^{10} - 20 S^3 T^{11} - 8 S^4 T^{11} + 46 S^5 T^{11} - 27 S^6 T^{11} - \\
& 89 S^7 T^{11} - 56 S^8 T^{11} - 43 S^9 T^{11} - 43 S^{10} T^{11} - 56 S^{11} T^{11} - 89 S^{12} T^{11} - 27 S^{13} T^{11} + 46 S^{14} T^{11} - \\
& 8 S^{15} T^{11} - 20 S^{16} T^{11} + 22 S^4 T^{12} - 8 S^5 T^{12} - 29 S^6 T^{12} + 8 S^7 T^{12} + 153 S^8 T^{12} - 89 S^9 T^{12} + 159 S^{10} T^{12} - \\
& 89 S^{11} T^{12} + 153 S^{12} T^{12} + 8 S^{13} T^{12} - 29 S^{14} T^{12} - 8 S^{15} T^{12} + 22 S^{16} T^{12} - 20 S^5 T^{13} + 16 S^6 T^{13} + \\
& 39 S^7 T^{13} - 92 S^8 T^{13} + 8 S^9 T^{13} - 27 S^{10} T^{13} - 27 S^{11} T^{13} + 8 S^{12} T^{13} - 92 S^{13} T^{13} + 39 S^{14} T^{13} + \\
& 16 S^{15} T^{13} - 20 S^{16} T^{13} + 16 S^6 T^{14} - 32 S^7 T^{14} + 14 S^8 T^{14} + 39 S^9 T^{14} - 29 S^{10} T^{14} + 46 S^{11} T^{14} - \\
& 29 S^{12} T^{14} + 39 S^{13} T^{14} + 14 S^{14} T^{14} - 32 S^{15} T^{14} + 16 S^{16} T^{14} - 8 S^7 T^{15} + 24 S^8 T^{15} - 32 S^9 T^{15} + \\
& 16 S^{10} T^{15} - 8 S^{11} T^{15} - 8 S^{12} T^{15} + 16 S^{13} T^{15} - 32 S^{14} T^{15} + 24 S^{15} T^{15} - 8 S^{16} T^{15} + 2 S^8 T^{16} - \\
& 8 S^9 T^{16} + 16 S^{10} T^{16} - 20 S^{11} T^{16} + 22 S^{12} T^{16} - 20 S^{13} T^{16} + 16 S^{14} T^{16} - 8 S^{15} T^{16} + 2 S^{16} T^{16} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 86] \rightarrow & -\frac{1}{S^6 T^6} \Big(1 - 4 S + 8 S^2 - 11 S^3 + 8 S^4 - 4 S^5 + S^6 - 4 T + 12 S T - 16 S^2 T + 12 S^3 T + \\
& 12 S^4 T - 16 S^5 T + 12 S^6 T - 4 S^7 T + 8 T^2 - 16 S T^2 + 14 S^2 T^2 - 15 S^3 T^2 - 16 S^4 T^2 - 15 S^5 T^2 + \\
& 14 S^6 T^2 - 16 S^7 T^2 + 8 S^8 T^2 - 11 T^3 + 12 S T^3 - 15 S^2 T^3 + 48 S^3 T^3 + 19 S^4 T^3 + 19 S^5 T^3 + \\
& 48 S^6 T^3 - 15 S^7 T^3 + 12 S^8 T^3 - 11 S^9 T^3 + 8 T^4 + 12 S T^4 - 16 S^2 T^4 + 19 S^3 T^4 - 210 S^4 T^4 + \\
& 132 S^5 T^4 - 210 S^6 T^4 + 19 S^7 T^4 - 16 S^8 T^4 + 12 S^9 T^4 + 8 S^{10} T^4 - 4 T^5 - 16 S T^5 - 15 S^2 T^5 + \\
& 19 S^3 T^5 + 132 S^4 T^5 + 82 S^5 T^5 + 82 S^6 T^5 + 132 S^7 T^5 + 19 S^8 T^5 - 15 S^9 T^5 - 16 S^{10} T^5 - 4 S^{11} T^5 + \\
& T^6 + 12 S T^6 + 14 S^2 T^6 + 48 S^3 T^6 - 210 S^4 T^6 + 82 S^5 T^6 - 360 S^6 T^6 + 82 S^7 T^6 - 210 S^8 T^6 + \\
& 48 S^9 T^6 + 14 S^{10} T^6 + 12 S^{11} T^6 + S^{12} T^6 - 4 S T^7 - 16 S^2 T^7 - 15 S^3 T^7 + 19 S^4 T^7 + 132 S^5 T^7 + \\
& 82 S^6 T^7 + 82 S^7 T^7 + 132 S^8 T^7 + 19 S^9 T^7 - 15 S^{10} T^7 - 16 S^{11} T^7 - 4 S^{12} T^7 + 8 S^2 T^8 + 12 S^3 T^8 - \\
& 16 S^4 T^8 + 19 S^5 T^8 - 210 S^6 T^8 + 132 S^7 T^8 - 210 S^8 T^8 + 19 S^9 T^8 - 16 S^{10} T^8 + 12 S^{11} T^8 + 8 S^{12} T^8 - \\
& 11 S^3 T^9 + 12 S^4 T^9 - 15 S^5 T^9 + 48 S^6 T^9 + 19 S^7 T^9 + 19 S^8 T^9 + 48 S^9 T^9 - 15 S^{10} T^9 + 12 S^{11} T^9 - \\
& 11 S^{12} T^9 + 8 S^4 T^{10} - 16 S^5 T^{10} + 14 S^6 T^{10} - 15 S^7 T^{10} - 16 S^8 T^{10} - 15 S^9 T^{10} + 14 S^{10} T^{10} - \\
& 16 S^{11} T^{10} + 8 S^{12} T^{10} - 4 S^5 T^{11} + 12 S^6 T^{11} - 16 S^7 T^{11} + 12 S^8 T^{11} + 12 S^9 T^{11} - 16 S^{10} T^{11} + \\
& 12 S^{11} T^{11} - 4 S^{12} T^{11} + S^6 T^{12} - 4 S^7 T^{12} + 8 S^8 T^{12} - 11 S^9 T^{12} + 8 S^{10} T^{12} - 4 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[10, 87] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 4S + 8S^2 - 11S^3 + 8S^4 - 4S^5 + S^6 - 4T + 12ST - 16S^2T + 12S^3T + \right. \\
12S^4T - 16S^5T + 12S^6T - 4S^7T + 8T^2 - 16ST^2 + 12S^2T^2 - 13S^3T^2 - 18S^4T^2 - 13S^5T^2 + 12S^6T^2 - \\
16S^7T^2 + 8S^8T^2 - 11T^3 + 12ST^3 - 13S^2T^3 + 62S^3T^3 + 9S^4T^3 + 9S^5T^3 + 62S^6T^3 - 13S^7T^3 + \\
12S^8T^3 - 11S^9T^3 + 8T^4 + 12ST^4 - 18S^2T^4 + 9S^3T^4 - 296S^4T^4 + 290S^5T^4 - 296S^6T^4 + 9S^7T^4 - \\
18S^8T^4 + 12S^9T^4 + 8S^{10}T^4 - 4T^5 - 16ST^5 - 13S^2T^5 + 9S^3T^5 + 290S^4T^5 - 32S^5T^5 - 32S^6T^5 + \\
290S^7T^5 + 9S^8T^5 - 13S^9T^5 - 16S^{10}T^5 - 4S^{11}T^5 + T^6 + 12ST^6 + 12S^2T^6 + 62S^3T^6 - 296S^4T^6 - \\
32S^5T^6 - 72S^6T^6 - 32S^7T^6 - 296S^8T^6 + 62S^9T^6 + 12S^{10}T^6 + 12S^{11}T^6 + S^{12}T^6 - 4S^7T^7 - 16S^2T^7 - \\
13S^3T^7 + 9S^4T^7 + 290S^5T^7 - 32S^6T^7 - 32S^7T^7 + 290S^8T^7 + 9S^9T^7 - 13S^{10}T^7 - 16S^{11}T^7 - \\
4S^{12}T^7 + 8S^2T^8 + 12S^3T^8 - 18S^4T^8 + 9S^5T^8 - 296S^6T^8 + 290S^7T^8 - 296S^8T^8 + 9S^9T^8 - \\
18S^{10}T^8 + 12S^{11}T^8 + 8S^{12}T^8 - 11S^3T^9 + 12S^4T^9 - 13S^5T^9 + 62S^6T^9 + 9S^7T^9 + 9S^8T^9 + 62S^9T^9 - \\
13S^{10}T^9 + 12S^{11}T^9 - 11S^{12}T^9 + 8S^4T^{10} - 16S^5T^{10} + 12S^6T^{10} - 13S^7T^{10} - 18S^8T^{10} - 13S^9T^{10} + \\
12S^{10}T^{10} - 16S^{11}T^{10} + 8S^{12}T^{10} - 4S^5T^{11} + 12S^6T^{11} - 16S^7T^{11} + 12S^8T^{11} + 12S^9T^{11} - 16S^{10}T^{11} + \\
12S^{11}T^{11} - 4S^{12}T^{11} + S^6T^{12} - 4S^7T^{12} + 8S^8T^{12} - 11S^9T^{12} + 8S^{10}T^{12} - 4S^{11}T^{12} + S^{12}T^{12} \Big),$$

$$\text{Knot}[10, 88] \rightarrow 0, \text{Knot}[10, 89] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 8S + 24S^2 - 33S^3 + 24S^4 - 8S^5 + S^6 - 8T + \right. \\
56ST - 128S^2T + 72S^3T + 72S^4T - 128S^5T + 56S^6T - 8S^7T + 24T^2 - 128ST^2 + 88S^2T^2 + \\
550S^3T^2 - 956S^4T^2 + 550S^5T^2 + 88S^6T^2 - 128S^7T^2 + 24S^8T^2 - 33T^3 + 72ST^3 + 550S^2T^3 - \\
1994S^3T^3 + 1183S^4T^3 + 1183S^5T^3 - 1994S^6T^3 + 550S^7T^3 + 72S^8T^3 - 33S^9T^3 + 24T^4 + 72ST^4 - \\
956S^2T^4 + 1183S^3T^4 + 3492S^4T^4 - 6524S^5T^4 + 3492S^6T^4 + 1183S^7T^4 - 956S^8T^4 + 72S^9T^4 + \\
24S^{10}T^4 - 8T^5 - 128ST^5 + 550S^2T^5 + 1183S^3T^5 - 6524S^4T^5 + 4002S^5T^5 + 4002S^6T^5 - 6524S^7T^5 + \\
1183S^8T^5 + 550S^9T^5 - 128S^{10}T^5 - 8S^{11}T^5 + T^6 + 56ST^6 + 88S^2T^6 - 1994S^3T^6 + 3492S^4T^6 + \\
4002S^5T^6 - 9108S^6T^6 + 4002S^7T^6 + 3492S^8T^6 - 1994S^9T^6 + 88S^{10}T^6 + 56S^{11}T^6 + S^{12}T^6 - \\
8ST^7 - 128S^2T^7 + 550S^3T^7 + 1183S^4T^7 - 6524S^5T^7 + 4002S^6T^7 + 4002S^7T^7 - 6524S^8T^7 + \\
1183S^9T^7 + 550S^{10}T^7 - 128S^{11}T^7 - 8S^{12}T^7 + 24S^2T^8 + 72S^3T^8 - 956S^4T^8 + 1183S^5T^8 + \\
3492S^6T^8 - 6524S^7T^8 + 3492S^8T^8 + 1183S^9T^8 - 956S^{10}T^8 + 72S^{11}T^8 + 24S^{12}T^8 - 33S^3T^9 + \\
72S^4T^9 + 550S^5T^9 - 1994S^6T^9 + 1183S^7T^9 + 1183S^8T^9 - 1994S^9T^9 + 550S^{10}T^9 + 72S^{11}T^9 - \\
33S^{12}T^9 + 24S^4T^{10} - 128S^5T^{10} + 88S^6T^{10} + 550S^7T^{10} - 956S^8T^{10} + 550S^9T^{10} + 88S^{10}T^{10} - \\
128S^{11}T^{10} + 24S^{12}T^{10} - 8S^5T^{11} + 56S^6T^{11} - 128S^7T^{11} + 72S^8T^{11} + 72S^9T^{11} - 128S^{10}T^{11} + \\
56S^{11}T^{11} - 8S^{12}T^{11} + S^6T^{12} - 8S^7T^{12} + 24S^8T^{12} - 33S^9T^{12} + 24S^{10}T^{12} - 8S^{11}T^{12} + S^{12}T^{12} \Big),$$

$$\text{Knot}[10, 90] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 4S + 8S^2 - 11S^3 + 8S^4 - 4S^5 + S^6 - 4T + 12ST - 16S^2T + 12S^3T + 12S^4T - \right. \\
16S^5T + 12S^6T - 4S^7T + 8T^2 - 16ST^2 + 10S^2T^2 - 3S^3T^2 - 32S^4T^2 - 3S^5T^2 + 10S^6T^2 - 16S^7T^2 + \\
8S^8T^2 - 11T^3 + 12ST^3 - 3S^2T^3 + 20S^3T^3 + 33S^4T^3 + 33S^5T^3 + 20S^6T^3 - 3S^7T^3 + 12S^8T^3 - \\
11S^9T^3 + 8T^4 + 12ST^4 - 32S^2T^4 + 33S^3T^4 - 144S^4T^4 + 24S^5T^4 - 144S^6T^4 + 33S^7T^4 - 32S^8T^4 + \\
12S^9T^4 + 8S^{10}T^4 - 4T^5 - 16ST^5 - 3S^2T^5 + 33S^3T^5 + 24S^4T^5 + 142S^5T^5 + 142S^6T^5 + 24S^7T^5 + \\
33S^8T^5 - 3S^9T^5 - 16S^{10}T^5 - 4S^{11}T^5 + T^6 + 12ST^6 + 10S^2T^6 + 20S^3T^6 - 144S^4T^6 + 142S^5T^6 - \\
492S^6T^6 + 142S^7T^6 - 144S^8T^6 + 20S^9T^6 + 10S^{10}T^6 + 12S^{11}T^6 + S^{12}T^6 - 4S^7T^7 - 16S^2T^7 - \\
3S^3T^7 + 33S^4T^7 + 24S^5T^7 + 142S^6T^7 + 142S^7T^7 + 24S^8T^7 + 33S^9T^7 - 3S^{10}T^7 - 16S^{11}T^7 - \\
4S^{12}T^7 + 8S^2T^8 + 12S^3T^8 - 32S^4T^8 + 33S^5T^8 - 144S^6T^8 + 24S^7T^8 - 144S^8T^8 + 33S^9T^8 - \\
32S^{10}T^8 + 12S^{11}T^8 + 8S^{12}T^8 - 11S^3T^9 + 12S^4T^9 - 3S^5T^9 + 20S^6T^9 + 33S^7T^9 + 33S^8T^9 + 20S^9T^9 - \\
3S^{10}T^9 + 12S^{11}T^9 - 11S^{12}T^9 + 8S^4T^{10} - 16S^5T^{10} + 10S^6T^{10} - 3S^7T^{10} - 32S^8T^{10} - 3S^9T^{10} + \\
10S^{10}T^{10} - 16S^{11}T^{10} + 8S^{12}T^{10} - 4S^5T^{11} + 12S^6T^{11} - 16S^7T^{11} + 12S^8T^{11} + 12S^9T^{11} - 16S^{10}T^{11} + \\
12S^{11}T^{11} - 4S^{12}T^{11} + S^6T^{12} - 4S^7T^{12} + 8S^8T^{12} - 11S^9T^{12} + 8S^{10}T^{12} - 4S^{11}T^{12} + S^{12}T^{12} \Big),$$

$$\text{Knot}[10, 91] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 2S + 3S^2 - 3S^3 + 3S^4 - 2S^5 + S^6 - 2T + S^2T - S^3T - S^4T + S^5T - \right.$$

$$\begin{aligned}
& 2S^7T + 3T^2 + S^2T^2 + 9S^2T^2 - 24S^3T^2 + 29S^4T^2 - 24S^5T^2 + 9S^6T^2 + S^7T^2 + 3S^8T^2 - 3T^3 - \\
& S^3T^3 - 24S^2T^3 + 34S^3T^3 - 9S^4T^3 - 9S^5T^3 + 34S^6T^3 - 24S^7T^3 - S^8T^3 - 3S^9T^3 + 3T^4 - ST^4 + \\
& 29S^2T^4 - 9S^3T^4 - 35S^4T^4 + 25S^5T^4 - 35S^6T^4 - 9S^7T^4 + 29S^8T^4 - S^9T^4 + 3S^{10}T^4 - 2T^5 + \\
& ST^5 - 24S^2T^5 - 9S^3T^5 + 25S^4T^5 + 14S^5T^5 + 14S^6T^5 + 25S^7T^5 - 9S^8T^5 - 24S^9T^5 + S^{10}T^5 - \\
& 2S^{11}T^5 + T^6 + 9S^2T^6 + 34S^3T^6 - 35S^4T^6 + 14S^5T^6 - 60S^6T^6 + 14S^7T^6 - 35S^8T^6 + 34S^9T^6 + \\
& 9S^{10}T^6 + S^{12}T^6 - 2ST^7 + S^2T^7 - 24S^3T^7 - 9S^4T^7 + 25S^5T^7 + 14S^6T^7 + 14S^7T^7 + 25S^8T^7 - \\
& 9S^9T^7 - 24S^{10}T^7 + S^{11}T^7 - 2S^{12}T^7 + 3S^2T^8 - S^3T^8 + 29S^4T^8 - 9S^5T^8 - 35S^6T^8 + 25S^7T^8 - \\
& 35S^8T^8 - 9S^9T^8 + 29S^{10}T^8 - S^{11}T^8 + 3S^{12}T^8 - 3S^3T^9 - S^4T^9 - 24S^5T^9 + 34S^6T^9 - 9S^7T^9 - \\
& 9S^8T^9 + 34S^9T^9 - 24S^{10}T^9 - S^{11}T^9 - 3S^{12}T^9 + 3S^4T^{10} + S^5T^{10} + 9S^6T^{10} - 24S^7T^{10} + \\
& 29S^8T^{10} - 24S^9T^{10} + 9S^{10}T^{10} + S^{11}T^{10} + 3S^{12}T^{10} - 2S^5T^{11} + S^7T^{11} - S^8T^{11} - S^9T^{11} + \\
& S^{10}T^{11} - 2S^{12}T^{11} + S^6T^{12} - 2S^7T^{12} + 3S^8T^{12} - 3S^9T^{12} + 3S^{10}T^{12} - 2S^{11}T^{12} + S^{12}T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 92] \rightarrow -\frac{1}{S^6T^6} (17 - 83S + 162S^2 - 201S^3 + 162S^4 - 83S^5 + 17S^6 - 83T + 324ST -$$

$$\begin{aligned}
& 392S^2T + 194S^3T + 194S^4T - 392S^5T + 324S^6T - 83S^7T + 162T^2 - 392S^2T^2 - 251S^2T^2 + \\
& 1170S^3T^2 - 1739S^4T^2 + 1170S^5T^2 - 251S^6T^2 - 392S^7T^2 + 162S^8T^2 - 201T^3 + 194ST^3 + \\
& 1170S^2T^3 - 1666S^3T^3 + 967S^4T^3 + 967S^5T^3 - 1666S^6T^3 + 1170S^7T^3 + 194S^8T^3 - 201S^9T^3 + \\
& 162T^4 + 194ST^4 - 1739S^2T^4 + 967S^3T^4 + 504S^4T^4 - 1870S^5T^4 + 504S^6T^4 + 967S^7T^4 - \\
& 1739S^8T^4 + 194S^9T^4 + 162S^{10}T^4 - 83T^5 - 392ST^5 + 1170S^2T^5 + 967S^3T^5 - 1870S^4T^5 + \\
& 1392S^5T^5 + 1392S^6T^5 - 1870S^7T^5 + 967S^8T^5 + 1170S^9T^5 - 392S^{10}T^5 - 83S^{11}T^5 + 17T^6 + \\
& 324ST^6 - 251S^2T^6 - 1666S^3T^6 + 504S^4T^6 + 1392S^5T^6 - 3276S^6T^6 + 1392S^7T^6 + 504S^8T^6 - \\
& 1666S^9T^6 - 251S^{10}T^6 + 324S^{11}T^6 + 17S^{12}T^6 - 83ST^7 - 392S^2T^7 + 1170S^3T^7 + 967S^4T^7 - \\
& 1870S^5T^7 + 1392S^6T^7 + 1392S^7T^7 - 1870S^8T^7 + 967S^9T^7 + 1170S^{10}T^7 - 392S^{11}T^7 - \\
& 83S^{12}T^7 + 162ST^8 + 194S^2T^8 - 1739S^3T^8 + 967S^4T^8 + 504S^5T^8 - 1870S^6T^8 + 504S^7T^8 + \\
& 967S^8T^8 - 1739S^{10}T^8 + 194S^{11}T^8 + 162S^{12}T^8 - 201S^3T^9 + 194S^4T^9 + 1170S^5T^9 - 1666S^6T^9 + \\
& 967S^7T^9 + 967S^8T^9 - 1666S^9T^9 + 1170S^{10}T^9 + 194S^{11}T^9 - 201S^{12}T^9 + 162S^4T^{10} - 392S^5T^{10} - \\
& 251S^6T^{10} + 1170S^7T^{10} - 1739S^8T^{10} + 1170S^9T^{10} - 251S^{10}T^{10} - 392S^{11}T^{10} + 162S^{12}T^{10} - \\
& 83S^5T^{11} + 324S^6T^{11} - 392S^7T^{11} + 194S^8T^{11} + 194S^9T^{11} - 392S^{10}T^{11} + 324S^{11}T^{11} - \\
& 83S^{12}T^{11} + 17S^6T^{12} - 83S^7T^{12} + 162S^8T^{12} - 201S^9T^{12} + 162S^{10}T^{12} - 83S^{11}T^{12} + 17S^{12}T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 93] \rightarrow -\frac{1}{S^6T^6} (7 - 28S + 52S^2 - 59S^3 + 52S^4 - 28S^5 + 7S^6 - 28T + 84ST - 96S^2T +$$

$$\begin{aligned}
& 28S^3T + 28S^4T - 96S^5T + 84S^6T - 28S^7T + 52T^2 - 96S^2T^2 - 24S^2T^2 + 229S^3T^2 - 240S^4T^2 + \\
& 229S^5T^2 - 24S^6T^2 - 96S^7T^2 + 52S^8T^2 - 59T^3 + 28ST^3 + 229S^2T^3 - 364S^3T^3 + 85S^4T^3 + 85S^5T^3 - \\
& 364S^6T^3 + 229S^7T^3 + 28S^8T^3 - 59S^9T^3 + 52T^4 + 28ST^4 - 240S^2T^4 + 85S^3T^4 + 410S^4T^4 - \\
& 456S^5T^4 + 410S^6T^4 + 85S^7T^4 - 240S^8T^4 + 28S^9T^4 + 52S^{10}T^4 - 28T^5 - 96ST^5 + 229S^2T^5 + \\
& 85S^3T^5 - 456S^4T^5 + 158S^5T^5 + 158S^6T^5 - 456S^7T^5 + 85S^8T^5 + 229S^9T^5 - 96S^{10}T^5 - 28S^{11}T^5 + \\
& 7T^6 + 84ST^6 - 24S^2T^6 - 364S^3T^6 + 410S^4T^6 + 158S^5T^6 - 336S^6T^6 + 158S^7T^6 + 410S^8T^6 - \\
& 364S^9T^6 - 24S^{10}T^6 + 84S^{11}T^6 + 7S^{12}T^6 - 28ST^7 - 96S^2T^7 + 229S^3T^7 + 85S^4T^7 - 456S^5T^7 + \\
& 158S^6T^7 + 158S^7T^7 - 456S^8T^7 + 85S^9T^7 + 229S^{10}T^7 - 96S^{11}T^7 - 28S^{12}T^7 + 52S^2T^8 + 28S^3T^8 - \\
& 240S^4T^8 + 85S^5T^8 + 410S^6T^8 - 456S^7T^8 + 410S^8T^8 + 85S^9T^8 - 240S^{10}T^8 + 28S^{11}T^8 + 52S^{12}T^8 - \\
& 59S^3T^9 + 28S^4T^9 + 229S^5T^9 - 364S^6T^9 + 85S^7T^9 + 85S^8T^9 - 364S^9T^9 + 229S^{10}T^9 + 28S^{11}T^9 - \\
& 59S^{12}T^9 + 52S^4T^{10} - 96S^5T^{10} - 24S^6T^{10} + 229S^7T^{10} - 240S^8T^{10} + 229S^9T^{10} - 24S^{10}T^{10} - \\
& 96S^{11}T^{10} + 52S^{12}T^{10} - 28S^5T^{11} + 84S^6T^{11} - 96S^7T^{11} + 28S^8T^{11} + 28S^9T^{11} - 96S^{10}T^{11} + \\
& 84S^{11}T^{11} - 28S^{12}T^{11} + 7S^6T^{12} - 28S^7T^{12} + 52S^8T^{12} - 59S^9T^{12} + 52S^{10}T^{12} - 28S^{11}T^{12} + 7S^{12}T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 94] \rightarrow -\frac{1}{S^8T^8} (1 - 4S + 9S^2 - 14S^3 + 15S^4 - 14S^5 + 9S^6 - 4S^7 + S^8 - 4T + 12ST -$$

$$20S^2T + 20S^3T - 4S^4T - 4S^5T + 20S^6T - 20S^7T + 12S^8T - 4S^9T + 9T^2 - 20ST^2 + 25S^2T^2 -$$

$$\begin{aligned}
& 14 S^3 T^2 - 17 S^4 T^2 + S^5 T^2 - 17 S^6 T^2 - 14 S^7 T^2 + 25 S^8 T^2 - 20 S^9 T^2 + 9 S^{10} T^2 - 14 T^3 + 20 S T^3 - \\
& 14 S^2 T^3 - 10 S^3 T^3 + 45 S^4 T^3 + 19 S^5 T^3 + 19 S^6 T^3 + 45 S^7 T^3 - 10 S^8 T^3 - 14 S^9 T^3 + 20 S^{10} T^3 - \\
& 14 S^{11} T^3 + 15 T^4 - 4 S T^4 - 17 S^2 T^4 + 45 S^3 T^4 - 56 S^4 T^4 - 59 S^5 T^4 - 36 S^6 T^4 - 59 S^7 T^4 - 56 S^8 T^4 + \\
& 45 S^9 T^4 - 17 S^{10} T^4 - 4 S^{11} T^4 + 15 S^{12} T^4 - 14 T^5 - 4 S T^5 + S^2 T^5 + 19 S^3 T^5 - 59 S^4 T^5 + 162 S^5 T^5 + \\
& 45 S^6 T^5 + 45 S^7 T^5 + 162 S^8 T^5 - 59 S^9 T^5 + 19 S^{10} T^5 + S^{11} T^5 - 4 S^{12} T^5 - 14 S^{13} T^5 + 9 T^6 + 20 S T^6 - \\
& 17 S^2 T^6 + 19 S^3 T^6 - 36 S^4 T^6 + 45 S^5 T^6 - 321 S^6 T^6 + 167 S^7 T^6 - 321 S^8 T^6 + 45 S^9 T^6 - 36 S^{10} T^6 + \\
& 19 S^{11} T^6 - 17 S^{12} T^6 + 20 S^{13} T^6 + 9 S^{14} T^6 - 4 T^7 - 20 S T^7 - 14 S^2 T^7 + 45 S^3 T^7 - 59 S^4 T^7 + \\
& 45 S^5 T^7 + 167 S^6 T^7 + 66 S^7 T^7 + 66 S^8 T^7 + 167 S^9 T^7 + 45 S^{10} T^7 - 59 S^{11} T^7 + 45 S^{12} T^7 - 14 S^{13} T^7 - \\
& 20 S^{14} T^7 - 4 S^{15} T^7 + T^8 + 12 S T^8 + 25 S^2 T^8 - 10 S^3 T^8 - 56 S^4 T^8 + 162 S^5 T^8 - 321 S^6 T^8 + 66 S^7 T^8 - \\
& 228 S^8 T^8 + 66 S^9 T^8 - 321 S^{10} T^8 + 162 S^{11} T^8 - 56 S^{12} T^8 - 10 S^{13} T^8 + 25 S^{14} T^8 + 12 S^{15} T^8 + \\
& S^{16} T^8 - 4 S T^9 - 20 S^2 T^9 - 14 S^3 T^9 + 45 S^4 T^9 - 59 S^5 T^9 + 45 S^6 T^9 + 167 S^7 T^9 + 66 S^8 T^9 + \\
& 66 S^9 T^9 + 167 S^{10} T^9 + 45 S^{11} T^9 - 59 S^{12} T^9 + 45 S^{13} T^9 - 14 S^{14} T^9 - 20 S^{15} T^9 - 4 S^{16} T^9 + 9 S^2 T^{10} + \\
& 20 S^3 T^{10} - 17 S^4 T^{10} + 19 S^5 T^{10} - 36 S^6 T^{10} + 45 S^7 T^{10} - 321 S^8 T^{10} + 167 S^9 T^{10} - 321 S^{10} T^{10} + \\
& 45 S^{11} T^{10} - 36 S^{12} T^{10} + 19 S^{13} T^{10} - 17 S^{14} T^{10} + 20 S^{15} T^{10} + 9 S^{16} T^{10} - 14 S^3 T^{11} - 4 S^4 T^{11} + S^5 T^{11} + \\
& 19 S^6 T^{11} - 59 S^7 T^{11} + 162 S^8 T^{11} + 45 S^9 T^{11} + 45 S^{10} T^{11} + 162 S^{11} T^{11} - 59 S^{12} T^{11} + 19 S^{13} T^{11} + \\
& S^{14} T^{11} - 4 S^{15} T^{11} - 14 S^{16} T^{11} + 15 S^4 T^{12} - 4 S^5 T^{12} - 17 S^6 T^{12} + 45 S^7 T^{12} - 56 S^8 T^{12} - 59 S^9 T^{12} - \\
& 36 S^{10} T^{12} - 59 S^{11} T^{12} - 56 S^{12} T^{12} + 45 S^{13} T^{12} - 17 S^{14} T^{12} - 4 S^{15} T^{12} + 15 S^{16} T^{12} - 14 S^5 T^{13} + \\
& 20 S^6 T^{13} - 14 S^7 T^{13} - 10 S^8 T^{13} + 45 S^9 T^{13} + 19 S^{10} T^{13} + 19 S^{11} T^{13} + 45 S^{12} T^{13} - 10 S^{13} T^{13} - \\
& 14 S^{14} T^{13} + 20 S^{15} T^{13} - 14 S^{16} T^{13} + 9 S^6 T^{14} - 20 S^7 T^{14} + 25 S^8 T^{14} - 14 S^9 T^{14} - 17 S^{10} T^{14} + \\
& S^{11} T^{14} - 17 S^{12} T^{14} - 14 S^{13} T^{14} + 25 S^{14} T^{14} - 20 S^{15} T^{14} + 9 S^{16} T^{14} - 4 S^7 T^{15} + 12 S^8 T^{15} - \\
& 20 S^9 T^{15} + 20 S^{10} T^{15} - 4 S^{11} T^{15} - 4 S^{12} T^{15} + 20 S^{13} T^{15} - 20 S^{14} T^{15} + 12 S^{15} T^{15} - 4 S^{16} T^{15} + \\
& S^8 T^{16} - 4 S^9 T^{16} + 9 S^{10} T^{16} - 14 S^{11} T^{16} + 15 S^{12} T^{16} - 14 S^{13} T^{16} + 9 S^{14} T^{16} - 4 S^{15} T^{16} + S^{16} T^{16} \Big),
\end{aligned}$$

$$\text{Knot}[10, 95] \rightarrow \frac{1}{S^6 T^6} \left(9 - 39 S + 90 S^2 - 115 S^3 + 90 S^4 - 39 S^5 + 9 S^6 - 39 T + 130 S T - \right.$$

$$\begin{aligned}
& 220 S^2 T + 108 S^3 T + 108 S^4 T - 220 S^5 T + 130 S^6 T - 39 S^7 T + 90 T^2 - 220 S T^2 + \\
& 245 S^2 T^2 + 184 S^3 T^2 - 415 S^4 T^2 + 184 S^5 T^2 + 245 S^6 T^2 - 220 S^7 T^2 + 90 S^8 T^2 - 115 T^3 + \\
& 108 S T^3 + 184 S^2 T^3 - 930 S^3 T^3 + 499 S^4 T^3 + 499 S^5 T^3 - 930 S^6 T^3 + 184 S^7 T^3 + \\
& 108 S^8 T^3 - 115 S^9 T^3 + 90 T^4 + 108 S T^4 - 415 S^2 T^4 + 499 S^3 T^4 + 1462 S^4 T^4 - 2494 S^5 T^4 + \\
& 1462 S^6 T^4 + 499 S^7 T^4 - 415 S^8 T^4 + 108 S^9 T^4 + 90 S^{10} T^4 - 39 T^5 - 220 S T^5 + 184 S^2 T^5 + \\
& 499 S^3 T^5 - 2494 S^4 T^5 + 1344 S^5 T^5 + 1344 S^6 T^5 - 2494 S^7 T^5 + 499 S^8 T^5 + 184 S^9 T^5 - \\
& 220 S^{10} T^5 - 39 S^{11} T^5 + 9 T^6 + 130 S T^6 + 245 S^2 T^6 - 930 S^3 T^6 + 1462 S^4 T^6 + 1344 S^5 T^6 - \\
& 2880 S^6 T^6 + 1344 S^7 T^6 + 1462 S^8 T^6 - 930 S^9 T^6 + 245 S^{10} T^6 + 130 S^{11} T^6 + 9 S^{12} T^6 - \\
& 39 S T^7 - 220 S^2 T^7 + 184 S^3 T^7 + 499 S^4 T^7 - 2494 S^5 T^7 + 1344 S^6 T^7 + 1344 S^7 T^7 - \\
& 2494 S^8 T^7 + 499 S^9 T^7 + 184 S^{10} T^7 - 220 S^{11} T^7 - 39 S^{12} T^7 + 90 S^2 T^8 + 108 S^3 T^8 - \\
& 415 S^4 T^8 + 499 S^5 T^8 + 1462 S^6 T^8 - 2494 S^7 T^8 + 1462 S^8 T^8 + 499 S^9 T^8 - 415 S^{10} T^8 + \\
& 108 S^{11} T^8 + 90 S^{12} T^8 - 115 S^3 T^9 + 108 S^4 T^9 + 184 S^5 T^9 - 930 S^6 T^9 + 499 S^7 T^9 + \\
& 499 S^8 T^9 - 930 S^9 T^9 + 184 S^{10} T^9 + 108 S^{11} T^9 - 115 S^{12} T^9 + 90 S^4 T^{10} - 220 S^5 T^{10} + \\
& 245 S^6 T^{10} + 184 S^7 T^{10} - 415 S^8 T^{10} + 184 S^9 T^{10} + 245 S^{10} T^{10} - 220 S^{11} T^{10} + 90 S^{12} T^{10} - \\
& 39 S^5 T^{11} + 130 S^6 T^{11} - 220 S^7 T^{11} + 108 S^8 T^{11} + 108 S^9 T^{11} - 220 S^{10} T^{11} + 130 S^{11} T^{11} - \\
& 39 S^{12} T^{11} + 9 S^6 T^{12} - 39 S^7 T^{12} + 90 S^8 T^{12} - 115 S^9 T^{12} + 90 S^{10} T^{12} - 39 S^{11} T^{12} + 9 S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[10, 96] \rightarrow -\frac{1}{S^4 T^4} \left(1 + 8 S - 25 S^2 + 8 S^3 + S^4 + 8 T - 86 S T + 110 S^2 T + 110 S^3 T - 86 S^4 T + \right.$$

$$\begin{aligned}
& 8 S^5 T - 25 T^2 + 110 S T^2 + 286 S^2 T^2 - 996 S^3 T^2 + 286 S^4 T^2 + 110 S^5 T^2 - 25 S^6 T^2 + 8 T^3 + \\
& 110 S T^3 - 996 S^2 T^3 + 1156 S^3 T^3 + 1156 S^4 T^3 - 996 S^5 T^3 + 110 S^6 T^3 + 8 S^7 T^3 + T^4 - 86 S T^4 + \\
& 286 S^2 T^4 + 1156 S^3 T^4 - 3432 S^4 T^4 + 1156 S^5 T^4 + 286 S^6 T^4 - 86 S^7 T^4 + S^8 T^4 + 8 S T^5 + \\
& 110 S^2 T^5 - 996 S^3 T^5 + 1156 S^4 T^5 + 1156 S^5 T^5 - 996 S^6 T^5 + 110 S^7 T^5 + 8 S^8 T^5 - 25 S^2 T^6 +
\end{aligned}$$

$$110 S^3 T^6 + 286 S^4 T^6 - 996 S^5 T^6 + 286 S^6 T^6 + 110 S^7 T^6 - 25 S^8 T^6 + 8 S^3 T^7 - 86 S^4 T^7 + 110 S^5 T^7 + 110 S^6 T^7 - 86 S^7 T^7 + 8 S^8 T^7 + S^4 T^8 + 8 S^5 T^8 - 25 S^6 T^8 + 8 S^7 T^8 + S^8 T^8),$$

$$\text{Knot}[10, 97] \rightarrow -\frac{1}{S^4 T^4} (145 - 635 S + 943 S^2 - 635 S^3 + 145 S^4 - 635 T + 2152 S T - 1359 S^2 T - 1359 S^3 T + 2152 S^4 T - 635 S^5 T + 943 T^2 - 1359 S T^2 - 5062 S^2 T^2 + 9832 S^3 T^2 - 5062 S^4 T^2 - 1359 S^5 T^2 + 943 S^6 T^2 - 635 T^3 - 1359 S T^3 + 9832 S^2 T^3 - 6720 S^3 T^3 - 6720 S^4 T^3 + 9832 S^5 T^3 - 1359 S^6 T^3 - 635 S^7 T^3 + 145 T^4 + 2152 S T^4 - 5062 S^2 T^4 - 6720 S^3 T^4 + 16188 S^4 T^4 - 6720 S^5 T^4 - 5062 S^6 T^4 + 2152 S^7 T^4 + 145 S^8 T^4 - 635 S T^5 - 1359 S^2 T^5 + 9832 S^3 T^5 - 6720 S^4 T^5 - 6720 S^5 T^5 + 9832 S^6 T^5 - 1359 S^7 T^5 - 635 S^8 T^5 + 943 S^2 T^6 - 1359 S^3 T^6 - 5062 S^4 T^6 + 9832 S^5 T^6 - 5062 S^6 T^6 - 1359 S^7 T^6 + 943 S^8 T^6 - 635 S^3 T^7 + 2152 S^4 T^7 - 1359 S^5 T^7 - 1359 S^6 T^7 + 2152 S^7 T^7 - 635 S^8 T^7 + 145 S^4 T^8 - 635 S^5 T^8 + 943 S^6 T^8 - 635 S^7 T^8 + 145 S^8 T^8),$$

$$\text{Knot}[10, 98] \rightarrow \frac{1}{S^6 T^6} (1 - S + S^2) (1 - T + T^2) (1 - S T + S^2 T^2) (17 - 58 S + 73 S^2 - 58 S^3 + 17 S^4 - 58 T + 140 S T - 52 S^2 T - 52 S^3 T + 140 S^4 T - 58 S^5 T + 73 T^2 - 52 S T^2 - 287 S^2 T^2 + 373 S^3 T^2 - 287 S^4 T^2 - 52 S^5 T^2 + 73 S^6 T^2 - 58 T^3 - 52 S T^3 + 373 S^2 T^3 - 140 S^3 T^3 - 140 S^4 T^3 + 373 S^5 T^3 - 52 S^6 T^3 - 58 S^7 T^3 + 17 T^4 + 140 S T^4 - 287 S^2 T^4 - 140 S^3 T^4 + 264 S^4 T^4 - 140 S^5 T^4 - 287 S^6 T^4 + 140 S^7 T^4 + 17 S^8 T^4 - 58 S T^5 - 52 S^2 T^5 + 373 S^3 T^5 - 140 S^4 T^5 - 140 S^5 T^5 + 373 S^6 T^5 - 52 S^7 T^5 - 58 S^8 T^5 + 73 S^2 T^6 - 52 S^3 T^6 - 287 S^4 T^6 + 373 S^5 T^6 - 287 S^6 T^6 - 52 S^7 T^6 + 73 S^8 T^6 - 58 S^3 T^7 + 140 S^4 T^7 - 52 S^5 T^7 - 52 S^6 T^7 + 140 S^7 T^7 - 58 S^8 T^7 + 17 S^4 T^8 - 58 S^5 T^8 + 73 S^6 T^8 - 58 S^7 T^8 + 17 S^8 T^8), \text{Knot}[10, 99] \rightarrow 0,$$

$$\text{Knot}[10, 100] \rightarrow -\frac{1}{S^8 T^8} (2 - 8 S + 18 S^2 - 24 S^3 + 26 S^4 - 24 S^5 + 18 S^6 - 8 S^7 + 2 S^8 - 8 T + 24 S T - 40 S^2 T + 24 S^3 T - 8 S^4 T - 8 S^5 T + 24 S^6 T - 40 S^7 T + 24 S^8 T - 8 S^9 T + 18 T^2 - 40 S T^2 + 49 S^2 T^2 + 10 S^3 T^2 - 8 S^4 T^2 + 7 S^5 T^2 - 8 S^6 T^2 + 10 S^7 T^2 + 49 S^8 T^2 - 40 S^9 T^2 + 18 S^{10} T^2 - 24 T^3 + 24 S T^3 + 10 S^2 T^3 - 116 S^3 T^3 + 29 S^4 T^3 - 8 S^5 T^3 - 8 S^6 T^3 + 29 S^7 T^3 - 116 S^8 T^3 + 10 S^9 T^3 + 24 S^{10} T^3 - 24 S^{11} T^3 + 26 T^4 - 8 S T^4 - 8 S^2 T^4 + 29 S^3 T^4 + 243 S^4 T^4 - 245 S^5 T^4 + 253 S^6 T^4 - 245 S^7 T^4 + 243 S^8 T^4 + 29 S^9 T^4 - 8 S^{10} T^4 - 8 S^{11} T^4 + 26 S^{12} T^4 - 24 T^5 - 8 S T^5 + 7 S^2 T^5 - 8 S^3 T^5 - 245 S^4 T^5 + 42 S^5 T^5 - 14 S^6 T^5 - 14 S^7 T^5 + 42 S^8 T^5 - 245 S^9 T^5 - 8 S^{10} T^5 + 7 S^{11} T^5 - 8 S^{12} T^5 - 24 S^{13} T^5 + 18 T^6 + 24 S T^6 - 8 S^2 T^6 - 8 S^3 T^6 + 253 S^4 T^6 - 14 S^5 T^6 + 140 S^6 T^6 - 162 S^7 T^6 + 140 S^8 T^6 - 14 S^9 T^6 + 253 S^{10} T^6 - 8 S^{11} T^6 - 8 S^{12} T^6 + 24 S^{13} T^6 + 18 S^{14} T^6 - 8 T^7 - 40 S T^7 + 10 S^2 T^7 + 29 S^3 T^7 - 245 S^4 T^7 - 14 S^5 T^7 - 162 S^6 T^7 + 58 S^7 T^7 + 58 S^8 T^7 - 162 S^9 T^7 - 14 S^{10} T^7 - 245 S^{11} T^7 + 29 S^{12} T^7 + 10 S^{13} T^7 - 40 S^{14} T^7 - 8 S^{15} T^7 + 2 T^8 + 24 S T^8 + 49 S^2 T^8 - 116 S^3 T^8 + 243 S^4 T^8 + 42 S^5 T^8 + 140 S^6 T^8 + 58 S^7 T^8 - 108 S^8 T^8 + 58 S^9 T^8 + 140 S^{10} T^8 + 42 S^{11} T^8 + 243 S^{12} T^8 - 116 S^{13} T^8 + 49 S^{14} T^8 + 24 S^{15} T^8 + 2 S^{16} T^8 - 8 S T^9 - 40 S^2 T^9 + 10 S^3 T^9 + 29 S^4 T^9 - 245 S^5 T^9 - 14 S^6 T^9 - 162 S^7 T^9 + 58 S^8 T^9 + 58 S^9 T^9 - 162 S^{10} T^9 - 14 S^{11} T^9 - 245 S^{12} T^9 + 29 S^{13} T^9 + 10 S^{14} T^9 - 40 S^{15} T^9 - 8 S^{16} T^9 + 18 S^2 T^{10} + 24 S^3 T^{10} - 8 S^4 T^{10} - 8 S^5 T^{10} + 253 S^6 T^{10} - 14 S^7 T^{10} + 140 S^8 T^{10} - 162 S^9 T^{10} + 140 S^{10} T^{10} - 14 S^{11} T^{10} + 253 S^{12} T^{10} - 8 S^{13} T^{10} - 8 S^{14} T^{10} + 24 S^{15} T^{10} + 18 S^{16} T^{10} - 24 S^3 T^{11} - 8 S^4 T^{11} + 7 S^5 T^{11} - 8 S^6 T^{11} - 245 S^7 T^{11} + 42 S^8 T^{11} - 14 S^9 T^{11} - 14 S^{10} T^{11} + 42 S^{11} T^{11} - 245 S^{12} T^{11} - 8 S^{13} T^{11} + 7 S^{14} T^{11} - 8 S^{15} T^{11} - 24 S^{16} T^{11} + 26 S^4 T^{12} - 8 S^5 T^{12} - 8 S^6 T^{12} + 29 S^7 T^{12} + 243 S^8 T^{12} - 245 S^9 T^{12} + 253 S^{10} T^{12} - 245 S^{11} T^{12} + 243 S^{12} T^{12} + 29 S^{13} T^{12} - 8 S^{14} T^{12} - 8 S^{15} T^{12} + 26 S^{16} T^{12} - 24 S^5 T^{13} + 24 S^6 T^{13} + 10 S^7 T^{13} - 116 S^8 T^{13} + 29 S^9 T^{13} - 8 S^{10} T^{13} - 8 S^{11} T^{13} + 29 S^{12} T^{13} - 116 S^{13} T^{13} + 10 S^{14} T^{13} + 24 S^{15} T^{13} - 24 S^{16} T^{13} + 18 S^6 T^{14} - 40 S^7 T^{14} + 49 S^8 T^{14} + 10 S^9 T^{14} - 8 S^{10} T^{14} + 7 S^{11} T^{14} - 8 S^{12} T^{14} + 10 S^{13} T^{14} + 49 S^{14} T^{14} - 40 S^{15} T^{14} + 18 S^{16} T^{14} - 8 S^7 T^{15} + 24 S^8 T^{15} - 40 S^9 T^{15} + 24 S^{10} T^{15} - 8 S^{11} T^{15} - 8 S^{12} T^{15} + 24 S^{13} T^{15} - 40 S^{14} T^{15} + 24 S^{15} T^{15} - 8 S^{16} T^{15} + 2 S^8 T^{16} - 8 S^9 T^{16} + 18 S^{10} T^{16} - 24 S^{11} T^{16} + 26 S^{12} T^{16} - 24 S^{13} T^{16} + 18 S^{14} T^{16} - 8 S^{15} T^{16} + 2 S^{16} T^{16}),$$

$$\text{Knot}[10, 101] \rightarrow \frac{1}{S^4 T^4} \left(777 - 2275 S + 3125 S^2 - 2275 S^3 + 777 S^4 - 2275 T + 4422 S T - 2516 S^2 T - 2516 S^3 T + 4422 S^4 T - 2275 S^5 T + 3125 T^2 - 2516 S T^2 - 4141 S^2 T^2 + 9095 S^3 T^2 - 4141 S^4 T^2 - 2516 S^5 T^2 + 3125 S^6 T^2 - 2275 T^3 - 2516 S T^3 + 9095 S^2 T^3 - 6060 S^3 T^3 - 6060 S^4 T^3 + 9095 S^5 T^3 - 2516 S^6 T^3 - 2275 S^7 T^3 + 777 T^4 + 4422 S T^4 - 4141 S^2 T^4 - 6060 S^3 T^4 + 14184 S^4 T^4 - 6060 S^5 T^4 - 4141 S^6 T^4 + 4422 S^7 T^4 + 777 S^8 T^4 - 2275 S T^5 - 2516 S^2 T^5 + 9095 S^3 T^5 - 6060 S^4 T^5 - 6060 S^5 T^5 + 9095 S^6 T^5 - 2516 S^7 T^5 - 2275 S^8 T^5 + 3125 S^2 T^6 - 2516 S^3 T^6 - 4141 S^4 T^6 + 9095 S^5 T^6 - 4141 S^6 T^6 - 2516 S^7 T^6 + 3125 S^8 T^6 - 2275 S^3 T^7 + 4422 S^4 T^7 - 2516 S^5 T^7 - 2516 S^6 T^7 + 4422 S^7 T^7 - 2275 S^8 T^7 + 777 S^4 T^8 - 2275 S^5 T^8 + 3125 S^6 T^8 - 2275 S^7 T^8 + 777 S^8 T^8 \right),$$

$$\text{Knot}[10, 102] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 4 S + 8 S^2 - 11 S^3 + 8 S^4 - 4 S^5 + S^6 - 4 T + 12 S T - 16 S^2 T + 12 S^3 T + 12 S^4 T - 16 S^5 T + 12 S^6 T - 4 S^7 T + 8 T^2 - 16 S T^2 + 8 S^2 T^2 - 32 S^4 T^2 + 8 S^6 T^2 - 16 S^7 T^2 + 8 S^8 T^2 - 11 T^3 + 12 S T^3 + 26 S^3 T^3 + 20 S^4 T^3 + 20 S^5 T^3 + 26 S^6 T^3 + 12 S^8 T^3 - 11 S^9 T^3 + 8 T^4 + 12 S T^4 - 32 S^2 T^4 + 20 S^3 T^4 - 178 S^4 T^4 + 132 S^5 T^4 - 178 S^6 T^4 + 20 S^7 T^4 - 32 S^8 T^4 + 12 S^9 T^4 + 8 S^{10} T^4 - 4 T^5 - 16 S T^5 + 20 S^3 T^5 + 132 S^4 T^5 + 36 S^5 T^5 + 36 S^6 T^5 + 132 S^7 T^5 + 20 S^8 T^5 - 16 S^{10} T^5 - 4 S^{11} T^5 + T^6 + 12 S T^6 + 8 S^2 T^6 + 26 S^3 T^6 - 178 S^4 T^6 + 36 S^5 T^6 - 204 S^6 T^6 + 36 S^7 T^6 - 178 S^8 T^6 + 26 S^9 T^6 + 8 S^{10} T^6 + 12 S^{11} T^6 + S^{12} T^6 - 4 S T^7 - 16 S^2 T^7 + 20 S^4 T^7 + 132 S^5 T^7 + 36 S^6 T^7 + 36 S^7 T^7 + 132 S^8 T^7 + 20 S^9 T^7 - 16 S^{11} T^7 - 4 S^{12} T^7 + 8 S^2 T^8 + 12 S^3 T^8 - 32 S^4 T^8 + 20 S^5 T^8 - 178 S^6 T^8 + 132 S^7 T^8 - 178 S^8 T^8 + 20 S^9 T^8 - 32 S^{10} T^8 + 12 S^{11} T^8 + 8 S^{12} T^8 - 11 S^3 T^9 + 12 S^4 T^9 + 26 S^6 T^9 + 20 S^7 T^9 + 20 S^8 T^9 + 26 S^9 T^9 + 12 S^{11} T^9 - 11 S^{12} T^9 + 8 S^4 T^{10} - 16 S^5 T^{10} + 8 S^6 T^{10} - 32 S^8 T^{10} + 8 S^{10} T^{10} - 16 S^{11} T^{10} + 8 S^{12} T^{10} - 4 S^5 T^{11} + 12 S^6 T^{11} - 16 S^7 T^{11} + 12 S^8 T^{11} + 12 S^9 T^{11} - 16 S^{10} T^{11} + 12 S^{11} T^{11} - 4 S^{12} T^{11} + S^6 T^{12} - 4 S^7 T^{12} + 8 S^8 T^{12} - 11 S^9 T^{12} + 8 S^{10} T^{12} - 4 S^{11} T^{12} + S^{12} T^{12} \right),$$

$$\text{Knot}[10, 103] \rightarrow -\frac{1}{S^6 T^6} \left(9 - 36 S + 76 S^2 - 93 S^3 + 76 S^4 - 36 S^5 + 9 S^6 - 36 T + 108 S T - 160 S^2 T + 68 S^3 T + 68 S^4 T - 160 S^5 T + 108 S^6 T - 36 S^7 T + 76 T^2 - 160 S T^2 + 128 S^2 T^2 + 172 S^3 T^2 - 274 S^4 T^2 + 172 S^5 T^2 + 128 S^6 T^2 - 160 S^7 T^2 + 76 S^8 T^2 - 93 T^3 + 68 S T^3 + 172 S^2 T^3 - 574 S^3 T^3 + 230 S^4 T^3 + 230 S^5 T^3 - 574 S^6 T^3 + 172 S^7 T^3 + 68 S^8 T^3 - 93 S^9 T^3 + 76 T^4 + 68 S T^4 - 274 S^2 T^4 + 230 S^3 T^4 + 815 S^4 T^4 - 1127 S^5 T^4 + 815 S^6 T^4 + 230 S^7 T^4 - 274 S^8 T^4 + 68 S^9 T^4 + 76 S^{10} T^4 - 36 T^5 - 160 S T^5 + 172 S^2 T^5 + 230 S^3 T^5 - 1127 S^4 T^5 + 438 S^5 T^5 + 438 S^6 T^5 - 1127 S^7 T^5 + 230 S^8 T^5 + 172 S^9 T^5 - 160 S^{10} T^5 - 36 S^{11} T^5 + 9 T^6 + 108 S T^6 + 128 S^2 T^6 - 574 S^3 T^6 + 815 S^4 T^6 + 438 S^5 T^6 - 780 S^6 T^6 + 438 S^7 T^6 + 815 S^8 T^6 - 574 S^9 T^6 + 128 S^{10} T^6 + 108 S^{11} T^6 + 9 S^{12} T^6 - 36 S T^7 - 160 S^2 T^7 + 172 S^3 T^7 + 230 S^4 T^7 - 1127 S^5 T^7 + 438 S^6 T^7 + 438 S^7 T^7 - 1127 S^8 T^7 + 230 S^9 T^7 + 172 S^{10} T^7 - 160 S^{11} T^7 - 36 S^{12} T^7 + 76 S^2 T^8 + 68 S^3 T^8 - 274 S^4 T^8 + 230 S^5 T^8 + 815 S^6 T^8 - 1127 S^7 T^8 + 815 S^8 T^8 + 230 S^9 T^8 - 274 S^{10} T^8 + 68 S^{11} T^8 + 76 S^{12} T^8 - 93 S^3 T^9 + 68 S^4 T^9 + 172 S^5 T^9 - 574 S^6 T^9 + 230 S^7 T^9 + 230 S^8 T^9 - 574 S^9 T^9 + 172 S^{10} T^9 + 68 S^{11} T^9 - 93 S^{12} T^9 + 76 S^4 T^{10} - 160 S^5 T^{10} + 128 S^6 T^{10} + 172 S^7 T^{10} - 274 S^8 T^{10} + 172 S^9 T^{10} + 128 S^{10} T^{10} - 160 S^{11} T^{10} + 76 S^{12} T^{10} - 36 S^5 T^{11} + 108 S^6 T^{11} - 160 S^7 T^{11} + 68 S^8 T^{11} + 68 S^9 T^{11} - 160 S^{10} T^{11} + 108 S^{11} T^{11} - 36 S^{12} T^{11} + 9 S^6 T^{12} - 36 S^7 T^{12} + 76 S^8 T^{12} - 93 S^9 T^{12} + 76 S^{10} T^{12} - 36 S^{11} T^{12} + 9 S^{12} T^{12} \right),$$

$$\text{Knot}[10, 104] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 2 S + 2 S^2 - S^3 + 2 S^4 - 2 S^5 + S^6 - 2 T + 4 S^2 T - 4 S^3 T - 4 S^4 T + 4 S^5 T - 2 S^7 T + 2 T^2 + 4 S T^2 - 3 S^2 T^2 - 11 S^3 T^2 + 23 S^4 T^2 - 11 S^5 T^2 - 3 S^6 T^2 + 4 S^7 T^2 + 2 S^8 T^2 - T^3 - 4 S T^3 - 11 S^2 T^3 + 28 S^3 T^3 - 15 S^4 T^3 - 15 S^5 T^3 + 28 S^6 T^3 - 11 S^7 T^3 - 4 S^8 T^3 - S^9 T^3 + 2 T^4 - 4 S T^4 + 23 S^2 T^4 - 15 S^3 T^4 - 25 S^4 T^4 + 37 S^5 T^4 - 25 S^6 T^4 - 15 S^7 T^4 + 23 S^8 T^4 - 4 S^9 T^4 + 2 S^{10} T^4 - 2 T^5 + 4 S T^5 - 11 S^2 T^5 - 15 S^3 T^5 + 37 S^4 T^5 - 8 S^5 T^5 - 8 S^6 T^5 + 37 S^7 T^5 - 15 S^8 T^5 - 11 S^9 T^5 + 4 S^{10} T^5 - 2 S^{11} T^5 + T^6 - 3 S^2 T^6 + 28 S^3 T^6 - 25 S^4 T^6 - 8 S^5 T^6 - 8 S^7 T^6 - 25 S^8 T^6 + 28 S^9 T^6 -$$

$$\begin{aligned}
& 3 S^{10} T^6 + S^{12} T^6 - 2 S T^7 + 4 S^2 T^7 - 11 S^3 T^7 - 15 S^4 T^7 + 37 S^5 T^7 - 8 S^6 T^7 - 8 S^7 T^7 + 37 S^8 T^7 - \\
& 15 S^9 T^7 - 11 S^{10} T^7 + 4 S^{11} T^7 - 2 S^{12} T^7 + 2 S^2 T^8 - 4 S^3 T^8 + 23 S^4 T^8 - 15 S^5 T^8 - 25 S^6 T^8 + \\
& 37 S^7 T^8 - 25 S^8 T^8 - 15 S^9 T^8 + 23 S^{10} T^8 - 4 S^{11} T^8 + 2 S^{12} T^8 - S^3 T^9 - 4 S^4 T^9 - 11 S^5 T^9 + 28 S^6 T^9 - \\
& 15 S^7 T^9 - 15 S^8 T^9 + 28 S^9 T^9 - 11 S^{10} T^9 - 4 S^{11} T^9 - S^{12} T^9 + 2 S^4 T^{10} + 4 S^5 T^{10} - 3 S^6 T^{10} - \\
& 11 S^7 T^{10} + 23 S^8 T^{10} - 11 S^9 T^{10} - 3 S^{10} T^{10} + 4 S^{11} T^{10} + 2 S^{12} T^{10} - 2 S^5 T^{11} + 4 S^7 T^{11} - 4 S^8 T^{11} - \\
& 4 S^9 T^{11} + 4 S^{10} T^{11} - 2 S^{12} T^{11} + S^6 T^{12} - 2 S^7 T^{12} + 2 S^8 T^{12} - S^9 T^{12} + 2 S^{10} T^{12} - 2 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[10, 105] \rightarrow \frac{1}{S^6 T^6} (1 - 8 S + 22 S^2 - 29 S^3 + 22 S^4 - 8 S^5 + S^6 - 8 T + 56 S T - 111 S^2 T +$$

$$\begin{aligned}
& 55 S^3 T + 55 S^4 T - 111 S^5 T + 56 S^6 T - 8 S^7 T + 22 T^2 - 111 S T^2 + 2 S^2 T^2 + 539 S^3 T^2 - \\
& 804 S^4 T^2 + 539 S^5 T^2 + 2 S^6 T^2 - 111 S^7 T^2 + 22 S^8 T^2 - 29 T^3 + 55 S T^3 + 539 S^2 T^3 - \\
& 1466 S^3 T^3 + 731 S^4 T^3 + 731 S^5 T^3 - 1466 S^6 T^3 + 539 S^7 T^3 + 55 S^8 T^3 - 29 S^9 T^3 + 22 T^4 + \\
& 55 S T^4 - 804 S^2 T^4 + 731 S^3 T^4 + 2151 S^4 T^4 - 3579 S^5 T^4 + 2151 S^6 T^4 + 731 S^7 T^4 - 804 S^8 T^4 + \\
& 55 S^9 T^4 + 22 S^{10} T^4 - 8 T^5 - 111 S T^5 + 539 S^2 T^5 + 731 S^3 T^5 - 3579 S^4 T^5 + 1878 S^5 T^5 + \\
& 1878 S^6 T^5 - 3579 S^7 T^5 + 731 S^8 T^5 + 539 S^9 T^5 - 111 S^{10} T^5 - 8 S^{11} T^5 + T^6 + 56 S T^6 + \\
& 2 S^2 T^6 - 1466 S^3 T^6 + 2151 S^4 T^6 + 1878 S^5 T^6 - 3996 S^6 T^6 + 1878 S^7 T^6 + 2151 S^8 T^6 - \\
& 1466 S^9 T^6 + 2 S^{10} T^6 + 56 S^{11} T^6 + S^{12} T^6 - 8 S T^7 - 111 S^2 T^7 + 539 S^3 T^7 + 731 S^4 T^7 - \\
& 3579 S^5 T^7 + 1878 S^6 T^7 + 1878 S^7 T^7 - 3579 S^8 T^7 + 731 S^9 T^7 + 539 S^{10} T^7 - 111 S^{11} T^7 - \\
& 8 S^{12} T^7 + 22 S^2 T^8 + 55 S^3 T^8 - 804 S^4 T^8 + 731 S^5 T^8 + 2151 S^6 T^8 - 3579 S^7 T^8 + 2151 S^8 T^8 + \\
& 731 S^9 T^8 - 804 S^{10} T^8 + 55 S^{11} T^8 + 22 S^{12} T^8 - 29 S^3 T^9 + 55 S^4 T^9 + 539 S^5 T^9 - 1466 S^6 T^9 + \\
& 731 S^7 T^9 + 731 S^8 T^9 - 1466 S^9 T^9 + 539 S^{10} T^9 + 55 S^{11} T^9 - 29 S^{12} T^9 + 22 S^4 T^{10} - \\
& 111 S^5 T^{10} + 2 S^6 T^{10} + 539 S^7 T^{10} - 804 S^8 T^{10} + 539 S^9 T^{10} + 2 S^{10} T^{10} - 111 S^{11} T^{10} + \\
& 22 S^{12} T^{10} - 8 S^5 T^{11} + 56 S^6 T^{11} - 111 S^7 T^{11} + 55 S^8 T^{11} + 55 S^9 T^{11} - 111 S^{10} T^{11} + 56 S^{11} T^{11} - \\
& 8 S^{12} T^{11} + S^6 T^{12} - 8 S^7 T^{12} + 22 S^8 T^{12} - 29 S^9 T^{12} + 22 S^{10} T^{12} - 8 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[10, 106] \rightarrow -\frac{1}{S^8 T^8} (1 - 4 S + 9 S^2 - 15 S^3 + 17 S^4 - 15 S^5 + 9 S^6 - 4 S^7 + S^8 - 4 T + 12 S T -$$

$$\begin{aligned}
& 20 S^2 T + 24 S^3 T - 8 S^4 T - 8 S^5 T + 24 S^6 T - 20 S^7 T + 12 S^8 T - 4 S^9 T + 9 T^2 - 20 S T^2 + 25 S^2 T^2 - \\
& 23 S^3 T^2 - 16 S^4 T^2 + 17 S^5 T^2 - 16 S^6 T^2 - 23 S^7 T^2 + 25 S^8 T^2 - 20 S^9 T^2 + 9 S^{10} T^2 - 15 T^3 + 24 S T^3 - \\
& 23 S^2 T^3 + 18 S^3 T^3 + 44 S^4 T^3 - S^5 T^3 - S^6 T^3 + 44 S^7 T^3 + 18 S^8 T^3 - 23 S^9 T^3 + 24 S^{10} T^3 - 15 S^{11} T^3 + \\
& 17 T^4 - 8 S T^4 - 16 S^2 T^4 + 44 S^3 T^4 - 134 S^4 T^4 + 27 S^5 T^4 - 58 S^6 T^4 + 27 S^7 T^4 - 134 S^8 T^4 + \\
& 44 S^9 T^4 - 16 S^{10} T^4 - 8 S^{11} T^4 + 17 S^{12} T^4 - 15 T^5 - 8 S T^5 + 17 S^2 T^5 - S^3 T^5 + 27 S^4 T^5 + 158 S^5 T^5 - \\
& 15 S^6 T^5 - 15 S^7 T^5 + 158 S^8 T^5 + 27 S^9 T^5 - S^{10} T^5 + 17 S^{11} T^5 - 8 S^{12} T^5 - 15 S^{13} T^5 + 9 T^6 + 24 S T^6 - \\
& 16 S^2 T^6 - S^3 T^6 - 58 S^4 T^6 - 15 S^5 T^6 - 326 S^6 T^6 + 322 S^7 T^6 - 326 S^8 T^6 - 15 S^9 T^6 - 58 S^{10} T^6 - \\
& S^{11} T^6 - 16 S^{12} T^6 + 24 S^{13} T^6 + 9 S^{14} T^6 - 4 T^7 - 20 S T^7 - 23 S^2 T^7 + 44 S^3 T^7 + 27 S^4 T^7 - 15 S^5 T^7 + \\
& 322 S^6 T^7 - 70 S^7 T^7 - 70 S^8 T^7 + 322 S^9 T^7 - 15 S^{10} T^7 + 27 S^{11} T^7 + 44 S^{12} T^7 - 23 S^{13} T^7 - 20 S^{14} T^7 - \\
& 4 S^{15} T^7 + T^8 + 12 S T^8 + 25 S^2 T^8 + 18 S^3 T^8 - 134 S^4 T^8 + 158 S^5 T^8 - 326 S^6 T^8 - 70 S^7 T^8 + \\
& 84 S^8 T^8 - 70 S^9 T^8 - 326 S^{10} T^8 + 158 S^{11} T^8 - 134 S^{12} T^8 + 18 S^{13} T^8 + 25 S^{14} T^8 + 12 S^{15} T^8 + \\
& S^{16} T^8 - 4 S T^9 - 20 S^2 T^9 - 23 S^3 T^9 + 44 S^4 T^9 + 27 S^5 T^9 - 15 S^6 T^9 + 322 S^7 T^9 - 70 S^8 T^9 - \\
& 70 S^9 T^9 + 322 S^{10} T^9 - 15 S^{11} T^9 + 27 S^{12} T^9 + 44 S^{13} T^9 - 23 S^{14} T^9 - 20 S^{15} T^9 - 4 S^{16} T^9 + 9 S^2 T^{10} + \\
& 24 S^3 T^{10} - 16 S^4 T^{10} - S^5 T^{10} - 58 S^6 T^{10} - 15 S^7 T^{10} - 326 S^8 T^{10} + 322 S^9 T^{10} - 326 S^{10} T^{10} - \\
& 15 S^{11} T^{10} - 58 S^{12} T^{10} - S^{13} T^{10} - 16 S^{14} T^{10} + 24 S^{15} T^{10} + 9 S^{16} T^{10} - 15 S^3 T^{11} - 8 S^4 T^{11} + \\
& 17 S^5 T^{11} - S^6 T^{11} + 27 S^7 T^{11} + 158 S^8 T^{11} - 15 S^9 T^{11} - 15 S^{10} T^{11} + 158 S^{11} T^{11} + 27 S^{12} T^{11} - \\
& S^{13} T^{11} + 17 S^{14} T^{11} - 8 S^{15} T^{11} - 15 S^{16} T^{11} + 17 S^4 T^{12} - 8 S^5 T^{12} - 16 S^6 T^{12} + 44 S^7 T^{12} - 134 S^8 T^{12} + \\
& 27 S^9 T^{12} - 58 S^{10} T^{12} + 27 S^{11} T^{12} - 134 S^{12} T^{12} + 44 S^{13} T^{12} - 16 S^{14} T^{12} - 8 S^{15} T^{12} + 17 S^{16} T^{12} - \\
& 15 S^5 T^{13} + 24 S^6 T^{13} - 23 S^7 T^{13} + 18 S^8 T^{13} + 44 S^9 T^{13} - S^{10} T^{13} - S^{11} T^{13} + 44 S^{12} T^{13} + 18 S^{13} T^{13} - \\
& 23 S^{14} T^{13} + 24 S^{15} T^{13} - 15 S^{16} T^{13} + 9 S^6 T^{14} - 20 S^7 T^{14} + 25 S^8 T^{14} - 23 S^9 T^{14} - 16 S^{10} T^{14} + \\
& 17 S^{11} T^{14} - 16 S^{12} T^{14} - 23 S^{13} T^{14} + 25 S^{14} T^{14} - 20 S^{15} T^{14} + 9 S^{16} T^{14} - 4 S^7 T^{15} + 12 S^8 T^{15} -
\end{aligned}$$

$$20 S^9 T^{15} + 24 S^{10} T^{15} - 8 S^{11} T^{15} - 8 S^{12} T^{15} + 24 S^{13} T^{15} - 20 S^{14} T^{15} + 12 S^{15} T^{15} - 4 S^{16} T^{15} + S^8 T^{16} - 4 S^9 T^{16} + 9 S^{10} T^{16} - 15 S^{11} T^{16} + 17 S^{12} T^{16} - 15 S^{13} T^{16} + 9 S^{14} T^{16} - 4 S^{15} T^{16} + S^{16} T^{16}),$$

$$\text{Knot}[10, 107] \rightarrow -\frac{1}{S^5 T^5} (S - S^2 - S^3 + S^4 + T - 4 S T - 9 S^2 T + 26 S^3 T - 9 S^4 T - 4 S^5 T + S^6 T - T^2 - 9 S T^2 + 64 S^2 T^2 - 60 S^3 T^2 - 60 S^4 T^2 + 64 S^5 T^2 - 9 S^6 T^2 - S^7 T^2 - T^3 + 26 S T^3 - 60 S^2 T^3 - 119 S^3 T^3 + 339 S^4 T^3 - 119 S^5 T^3 - 60 S^6 T^3 + 26 S^7 T^3 - S^8 T^3 + T^4 - 9 S T^4 - 60 S^2 T^4 + 339 S^3 T^4 - 296 S^4 T^4 - 296 S^5 T^4 + 339 S^6 T^4 - 60 S^7 T^4 - 9 S^8 T^4 + S^9 T^4 - 4 S T^5 + 64 S^2 T^5 - 119 S^3 T^5 - 296 S^4 T^5 + 768 S^5 T^5 - 296 S^6 T^5 - 119 S^7 T^5 + 64 S^8 T^5 - 4 S^9 T^5 + S T^6 - 9 S^2 T^6 - 60 S^3 T^6 + 339 S^4 T^6 - 296 S^5 T^6 - 296 S^6 T^6 + 339 S^7 T^6 - 60 S^8 T^6 - 9 S^9 T^6 + S^{10} T^6 - S^2 T^7 + 26 S^3 T^7 - 60 S^4 T^7 - 119 S^5 T^7 + 339 S^6 T^7 - 119 S^7 T^7 - 60 S^8 T^7 + 26 S^9 T^7 - S^{10} T^7 - S^3 T^8 - 9 S^4 T^8 + 64 S^5 T^8 - 60 S^6 T^8 - 60 S^7 T^8 + 64 S^8 T^8 - 9 S^9 T^8 - S^{10} T^8 + S^4 T^9 - 4 S^5 T^9 - 9 S^6 T^9 + 26 S^7 T^9 - 9 S^8 T^9 - 4 S^9 T^9 + S^{10} T^9 + S^6 T^{10} - S^7 T^{10} - S^8 T^{10} + S^9 T^{10}),$$

$$\text{Knot}[10, 108] \rightarrow \frac{1}{S^6 T^6} (7 - 28 S + 48 S^2 - 51 S^3 + 48 S^4 - 28 S^5 + 7 S^6 - 28 T + 84 S T - 80 S^2 T + 12 S^3 T + 12 S^4 T - 80 S^5 T + 84 S^6 T - 28 S^7 T + 48 T^2 - 80 S T^2 - 82 S^2 T^2 + 264 S^3 T^2 - 220 S^4 T^2 + 264 S^5 T^2 - 82 S^6 T^2 - 80 S^7 T^2 + 48 S^8 T^2 - 51 T^3 + 12 S T^3 + 264 S^2 T^3 - 318 S^3 T^3 + 18 S^4 T^3 + 18 S^5 T^3 - 318 S^6 T^3 + 264 S^7 T^3 + 12 S^8 T^3 - 51 S^9 T^3 + 48 T^4 + 12 S T^4 - 220 S^2 T^4 + 18 S^3 T^4 + 387 S^4 T^4 - 309 S^5 T^4 + 387 S^6 T^4 + 18 S^7 T^4 - 220 S^8 T^4 + 12 S^9 T^4 + 48 S^{10} T^4 - 28 T^5 - 80 S T^5 + 264 S^2 T^5 + 18 S^3 T^5 - 309 S^4 T^5 + 54 S^5 T^5 + 54 S^6 T^5 - 309 S^7 T^5 + 18 S^8 T^5 + 264 S^9 T^5 - 80 S^{10} T^5 - 28 S^{11} T^5 + 7 T^6 + 84 S T^6 - 82 S^2 T^6 - 318 S^3 T^6 + 387 S^4 T^6 + 54 S^5 T^6 - 120 S^6 T^6 + 54 S^7 T^6 + 387 S^8 T^6 - 318 S^9 T^6 - 82 S^{10} T^6 + 84 S^{11} T^6 + 7 S^{12} T^6 - 28 S T^7 - 80 S^2 T^7 + 264 S^3 T^7 + 18 S^4 T^7 - 309 S^5 T^7 + 54 S^6 T^7 + 54 S^7 T^7 - 309 S^8 T^7 + 18 S^9 T^7 + 264 S^{10} T^7 - 80 S^{11} T^7 - 28 S^{12} T^7 + 48 S^2 T^8 + 12 S^3 T^8 - 220 S^4 T^8 + 18 S^5 T^8 + 387 S^6 T^8 - 309 S^7 T^8 + 387 S^8 T^8 + 18 S^9 T^8 - 220 S^{10} T^8 + 12 S^{11} T^8 + 48 S^{12} T^8 - 51 S^3 T^9 + 12 S^4 T^9 + 264 S^5 T^9 - 318 S^6 T^9 + 18 S^7 T^9 + 18 S^8 T^9 - 318 S^9 T^9 + 264 S^{10} T^9 + 12 S^{11} T^9 - 51 S^{12} T^9 + 48 S^4 T^{10} - 80 S^5 T^{10} - 82 S^6 T^{10} + 264 S^7 T^{10} - 220 S^8 T^{10} + 264 S^9 T^{10} - 82 S^{10} T^{10} - 80 S^{11} T^{10} + 48 S^{12} T^{10} - 28 S^5 T^{11} + 84 S^6 T^{11} - 80 S^7 T^{11} + 12 S^8 T^{11} + 12 S^9 T^{11} - 80 S^{10} T^{11} + 84 S^{11} T^{11} - 28 S^{12} T^{11} + 7 S^6 T^{12} - 28 S^7 T^{12} + 48 S^8 T^{12} - 51 S^9 T^{12} + 48 S^{10} T^{12} - 28 S^{11} T^{12} + 7 S^{12} T^{12}),$$

$$\text{Knot}[10, 109] \rightarrow 0, \text{Knot}[10, 110] \rightarrow$$

$$-\frac{1}{S^6 T^6} (1 - 8 S + 20 S^2 - 25 S^3 + 20 S^4 - 8 S^5 + S^6 - 8 T + 56 S T - 95 S^2 T + 39 S^3 T + 39 S^4 T - 95 S^5 T + 56 S^6 T - 8 S^7 T + 20 T^2 - 95 S T^2 - 90 S^2 T^2 + 590 S^3 T^2 - 752 S^4 T^2 + 590 S^5 T^2 - 90 S^6 T^2 - 95 S^7 T^2 + 20 S^8 T^2 - 25 T^3 + 39 S T^3 + 590 S^2 T^3 - 1226 S^3 T^3 + 466 S^4 T^3 + 466 S^5 T^3 - 1226 S^6 T^3 + 590 S^7 T^3 + 39 S^8 T^3 - 25 S^9 T^3 + 20 T^4 + 39 S T^4 - 752 S^2 T^4 + 466 S^3 T^4 + 1694 S^4 T^4 - 2326 S^5 T^4 + 1694 S^6 T^4 + 466 S^7 T^4 - 752 S^8 T^4 + 39 S^9 T^4 + 20 S^{10} T^4 - 8 T^5 - 95 S T^5 + 590 S^2 T^5 + 466 S^3 T^5 - 2326 S^4 T^5 + 956 S^5 T^5 + 956 S^6 T^5 - 2326 S^7 T^5 + 466 S^8 T^5 + 590 S^9 T^5 - 95 S^{10} T^5 - 8 S^{11} T^5 + T^6 + 56 S T^6 - 90 S^2 T^6 - 1226 S^3 T^6 + 1694 S^4 T^6 + 956 S^5 T^6 - 1872 S^6 T^6 + 956 S^7 T^6 + 1694 S^8 T^6 - 1226 S^9 T^6 - 90 S^{10} T^6 + 56 S^{11} T^6 + S^{12} T^6 - 8 S T^7 - 95 S^2 T^7 + 590 S^3 T^7 + 466 S^4 T^7 - 2326 S^5 T^7 + 956 S^6 T^7 + 956 S^7 T^7 - 2326 S^8 T^7 + 466 S^9 T^7 + 590 S^{10} T^7 - 95 S^{11} T^7 - 8 S^{12} T^7 + 20 S^2 T^8 + 39 S^3 T^8 - 752 S^4 T^8 + 466 S^5 T^8 + 1694 S^6 T^8 - 2326 S^7 T^8 + 1694 S^8 T^8 + 466 S^9 T^8 - 752 S^{10} T^8 + 39 S^{11} T^8 + 20 S^{12} T^8 - 25 S^3 T^9 + 39 S^4 T^9 + 590 S^5 T^9 - 1226 S^6 T^9 + 466 S^7 T^9 + 466 S^8 T^9 - 1226 S^9 T^9 + 590 S^{10} T^9 + 39 S^{11} T^9 - 25 S^{12} T^9 + 20 S^4 T^{10} - 95 S^5 T^{10} - 90 S^6 T^{10} + 590 S^7 T^{10} - 752 S^8 T^{10} + 590 S^9 T^{10} - 90 S^{10} T^{10} - 95 S^{11} T^{10} + 20 S^{12} T^{10} - 8 S^5 T^{11} + 56 S^6 T^{11} - 95 S^7 T^{11} + 39 S^8 T^{11} + 39 S^9 T^{11} - 95 S^{10} T^{11} + 56 S^{11} T^{11} - 8 S^{12} T^{11} + S^6 T^{12} - 8 S^7 T^{12} + 20 S^8 T^{12} - 25 S^9 T^{12} + 20 S^{10} T^{12} - 8 S^{11} T^{12} + S^{12} T^{12}),$$

$$\text{Knot}[10, 111] \rightarrow -\frac{1}{S^6 T^6} (17 - 75 S + 140 S^2 - 173 S^3 + 140 S^4 - 75 S^5 + 17 S^6 - 75 T + 256 S T -$$

$$\begin{aligned}
& 287 S^2 T + 145 S^3 T + 145 S^4 T - 287 S^5 T + 256 S^6 T - 75 S^7 T + 140 T^2 - 287 S T^2 - 166 S^2 T^2 + \\
& 704 S^3 T^2 - 1082 S^4 T^2 + 704 S^5 T^2 - 166 S^6 T^2 - 287 S^7 T^2 + 140 S^8 T^2 - 173 T^3 + 145 S T^3 + 704 S^2 T^3 - \\
& 892 S^3 T^3 + 575 S^4 T^3 + 575 S^5 T^3 - 892 S^6 T^3 + 704 S^7 T^3 + 145 S^8 T^3 - 173 S^9 T^3 + 140 T^4 + 145 S T^4 - \\
& 1082 S^2 T^4 + 575 S^3 T^4 + 65 S^4 T^4 - 925 S^5 T^4 + 65 S^6 T^4 + 575 S^7 T^4 - 1082 S^8 T^4 + 145 S^9 T^4 + \\
& 140 S^{10} T^4 - 75 T^5 - 287 S T^5 + 704 S^2 T^5 + 575 S^3 T^5 - 925 S^4 T^5 + 842 S^5 T^5 + 842 S^6 T^5 - 925 S^7 T^5 + \\
& 575 S^8 T^5 + 704 S^9 T^5 - 287 S^{10} T^5 - 75 S^{11} T^5 + 17 T^6 + 256 S T^6 - 166 S^2 T^6 - 892 S^3 T^6 + 65 S^4 T^6 + \\
& 842 S^5 T^6 - 2076 S^6 T^6 + 842 S^7 T^6 + 65 S^8 T^6 - 892 S^9 T^6 - 166 S^{10} T^6 + 256 S^{11} T^6 + 17 S^{12} T^6 - \\
& 75 S T^7 - 287 S^2 T^7 + 704 S^3 T^7 + 575 S^4 T^7 - 925 S^5 T^7 + 842 S^6 T^7 + 842 S^7 T^7 - 925 S^8 T^7 + 575 S^9 T^7 + \\
& 704 S^{10} T^7 - 287 S^{11} T^7 - 75 S^{12} T^7 + 140 S^2 T^8 + 145 S^3 T^8 - 1082 S^4 T^8 + 575 S^5 T^8 + 65 S^6 T^8 - \\
& 925 S^7 T^8 + 65 S^8 T^8 + 575 S^9 T^8 - 1082 S^{10} T^8 + 145 S^{11} T^8 + 140 S^{12} T^8 - 173 S^3 T^9 + 145 S^4 T^9 + \\
& 704 S^5 T^9 - 892 S^6 T^9 + 575 S^7 T^9 + 575 S^8 T^9 - 892 S^9 T^9 + 704 S^{10} T^9 + 145 S^{11} T^9 - 173 S^{12} T^9 + \\
& 140 S^4 T^{10} - 287 S^5 T^{10} - 166 S^6 T^{10} + 704 S^7 T^{10} - 1082 S^8 T^{10} + 704 S^9 T^{10} - 166 S^{10} T^{10} - 287 S^{11} T^{10} + \\
& 140 S^{12} T^{10} - 75 S^5 T^{11} + 256 S^6 T^{11} - 287 S^7 T^{11} + 145 S^8 T^{11} + 145 S^9 T^{11} - 287 S^{10} T^{11} + 256 S^{11} T^{11} - \\
& 75 S^{12} T^{11} + 17 S^6 T^{12} - 75 S^7 T^{12} + 140 S^8 T^{12} - 173 S^9 T^{12} + 140 S^{10} T^{12} - 75 S^{11} T^{12} + 17 S^{12} T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 112] \rightarrow \frac{1}{S^8 T^8} (1 - 5 S + 11 S^2 - 17 S^3 + 19 S^4 - 17 S^5 + 11 S^6 - 5 S^7 + S^8 - 5 T + 20 S T -$$

$$\begin{aligned}
& 30 S^2 T + 30 S^3 T - 10 S^4 T - 10 S^5 T + 30 S^6 T - 30 S^7 T + 20 S^8 T - 5 S^9 T + 11 T^2 - 30 S T^2 + \\
& 6 S^2 T^2 + 38 S^3 T^2 - 105 S^4 T^2 + 114 S^5 T^2 - 105 S^6 T^2 + 38 S^7 T^2 + 6 S^8 T^2 - 30 S^9 T^2 + \\
& 11 S^{10} T^2 - 17 T^3 + 30 S T^3 + 38 S^2 T^3 - 78 S^3 T^3 + 119 S^4 T^3 - 25 S^5 T^3 - 25 S^6 T^3 + 119 S^7 T^3 - \\
& 78 S^8 T^3 + 38 S^9 T^3 + 30 S^{10} T^3 - 17 S^{11} T^3 + 19 T^4 - 10 S T^4 - 105 S^2 T^4 + 119 S^3 T^4 - \\
& 152 S^4 T^4 + 9 S^5 T^4 - 40 S^6 T^4 + 9 S^7 T^4 - 152 S^8 T^4 + 119 S^9 T^4 - 105 S^{10} T^4 - 10 S^{11} T^4 + \\
& 19 S^{12} T^4 - 17 T^5 - 10 S T^5 + 114 S^2 T^5 - 25 S^3 T^5 + 9 S^4 T^5 + 164 S^5 T^5 - 10 S^6 T^5 - 10 S^7 T^5 + \\
& 164 S^8 T^5 + 9 S^9 T^5 - 25 S^{10} T^5 + 114 S^{11} T^5 - 10 S^{12} T^5 - 17 S^{13} T^5 + 11 T^6 + 30 S T^6 - \\
& 105 S^2 T^6 - 25 S^3 T^6 - 40 S^4 T^6 - 10 S^5 T^6 - 294 S^6 T^6 + 272 S^7 T^6 - 294 S^8 T^6 - 10 S^9 T^6 - \\
& 40 S^{10} T^6 - 25 S^{11} T^6 - 105 S^{12} T^6 + 30 S^{13} T^6 + 11 S^{14} T^6 - 5 T^7 - 30 S T^7 + 38 S^2 T^7 + \\
& 119 S^3 T^7 + 9 S^4 T^7 - 10 S^5 T^7 + 272 S^6 T^7 - 52 S^7 T^7 - 52 S^8 T^7 + 272 S^9 T^7 - 10 S^{10} T^7 + \\
& 9 S^{11} T^7 + 119 S^{12} T^7 + 38 S^{13} T^7 - 30 S^{14} T^7 - 5 S^{15} T^7 + T^8 + 20 S T^8 + 6 S^2 T^8 - 78 S^3 T^8 - \\
& 152 S^4 T^8 + 164 S^5 T^8 - 294 S^6 T^8 - 52 S^7 T^8 + 60 S^8 T^8 - 52 S^9 T^8 - 294 S^{10} T^8 + 164 S^{11} T^8 - \\
& 152 S^{12} T^8 - 78 S^{13} T^8 + 6 S^{14} T^8 + 20 S^{15} T^8 + S^{16} T^8 - 5 S T^9 - 30 S^2 T^9 + 38 S^3 T^9 + 119 S^4 T^9 + \\
& 9 S^5 T^9 - 10 S^6 T^9 + 272 S^7 T^9 - 52 S^8 T^9 - 52 S^9 T^9 + 272 S^{10} T^9 - 10 S^{11} T^9 + 9 S^{12} T^9 + \\
& 119 S^{13} T^9 + 38 S^{14} T^9 - 30 S^{15} T^9 - 5 S^{16} T^9 + 11 S^2 T^{10} + 30 S^3 T^{10} - 105 S^4 T^{10} - 25 S^5 T^{10} - \\
& 40 S^6 T^{10} - 10 S^7 T^{10} - 294 S^8 T^{10} + 272 S^9 T^{10} - 294 S^{10} T^{10} - 10 S^{11} T^{10} - 40 S^{12} T^{10} - \\
& 25 S^{13} T^{10} - 105 S^{14} T^{10} + 30 S^{15} T^{10} + 11 S^{16} T^{10} - 17 S^3 T^{11} - 10 S^4 T^{11} + 114 S^5 T^{11} - \\
& 25 S^6 T^{11} + 9 S^7 T^{11} + 164 S^8 T^{11} - 10 S^9 T^{11} - 10 S^{10} T^{11} + 164 S^{11} T^{11} + 9 S^{12} T^{11} - 25 S^{13} T^{11} + \\
& 114 S^{14} T^{11} - 10 S^{15} T^{11} - 17 S^{16} T^{11} + 19 S^4 T^{12} - 10 S^5 T^{12} - 105 S^6 T^{12} + 119 S^7 T^{12} - \\
& 152 S^8 T^{12} + 9 S^9 T^{12} - 40 S^{10} T^{12} + 9 S^{11} T^{12} - 152 S^{12} T^{12} + 119 S^{13} T^{12} - 105 S^{14} T^{12} - \\
& 10 S^{15} T^{12} + 19 S^{16} T^{12} - 17 S^5 T^{13} + 30 S^6 T^{13} + 38 S^7 T^{13} - 78 S^8 T^{13} + 119 S^9 T^{13} - \\
& 25 S^{10} T^{13} - 25 S^{11} T^{13} + 119 S^{12} T^{13} - 78 S^{13} T^{13} + 38 S^{14} T^{13} + 30 S^{15} T^{13} - 17 S^{16} T^{13} + \\
& 11 S^6 T^{14} - 30 S^7 T^{14} + 6 S^8 T^{14} + 38 S^9 T^{14} - 105 S^{10} T^{14} + 114 S^{11} T^{14} - 105 S^{12} T^{14} + \\
& 38 S^{13} T^{14} + 6 S^{14} T^{14} - 30 S^{15} T^{14} + 11 S^{16} T^{14} - 5 S^7 T^{15} + 20 S^8 T^{15} - 30 S^9 T^{15} + 30 S^{10} T^{15} - \\
& 10 S^{11} T^{15} - 10 S^{12} T^{15} + 30 S^{13} T^{15} - 30 S^{14} T^{15} + 20 S^{15} T^{15} - 5 S^{16} T^{15} + S^8 T^{16} - 5 S^9 T^{16} + \\
& 11 S^{10} T^{16} - 17 S^{11} T^{16} + 19 S^{12} T^{16} - 17 S^{13} T^{16} + 11 S^{14} T^{16} - 5 S^{15} T^{16} + S^{16} T^{16}),
\end{aligned}$$

$$\text{Knot}[10, 113] \rightarrow \frac{1}{S^6 T^6} (9 - 48 S + 110 S^2 - 137 S^3 + 110 S^4 - 48 S^5 + 9 S^6 - 48 T + 210 S T -$$

$$\begin{aligned}
& 337 S^2 T + 149 S^3 T + 149 S^4 T - 337 S^5 T + 210 S^6 T - 48 S^7 T + 110 T^2 - 337 S T^2 + 94 S^2 T^2 + \\
& 915 S^3 T^2 - 1308 S^4 T^2 + 915 S^5 T^2 + 94 S^6 T^2 - 337 S^7 T^2 + 110 S^8 T^2 - 137 T^3 + 149 S T^3 +
\end{aligned}$$

$$\begin{aligned}
& 915 S^2 T^3 - 2286 S^3 T^3 + 974 S^4 T^3 + 974 S^5 T^3 - 2286 S^6 T^3 + 915 S^7 T^3 + 149 S^8 T^3 - \\
& 137 S^9 T^3 + 110 T^4 + 149 S T^4 - 1308 S^2 T^4 + 974 S^3 T^4 + 3152 S^4 T^4 - 4576 S^5 T^4 + 3152 S^6 T^4 + \\
& 974 S^7 T^4 - 1308 S^8 T^4 + 149 S^9 T^4 + 110 S^{10} T^4 - 48 T^5 - 337 S T^5 + 915 S^2 T^5 + 974 S^3 T^5 - \\
& 4576 S^4 T^5 + 1892 S^5 T^5 + 1892 S^6 T^5 - 4576 S^7 T^5 + 974 S^8 T^5 + 915 S^9 T^5 - 337 S^{10} T^5 - \\
& 48 S^{11} T^5 + 9 T^6 + 210 S T^6 + 94 S^2 T^6 - 2286 S^3 T^6 + 3152 S^4 T^6 + 1892 S^5 T^6 - 3456 S^6 T^6 + \\
& 1892 S^7 T^6 + 3152 S^8 T^6 - 2286 S^9 T^6 + 94 S^{10} T^6 + 210 S^{11} T^6 + 9 S^{12} T^6 - 48 S T^7 - \\
& 337 S^2 T^7 + 915 S^3 T^7 + 974 S^4 T^7 - 4576 S^5 T^7 + 1892 S^6 T^7 + 1892 S^7 T^7 - 4576 S^8 T^7 + \\
& 974 S^9 T^7 + 915 S^{10} T^7 - 337 S^{11} T^7 - 48 S^{12} T^7 + 110 S^2 T^8 + 149 S^3 T^8 - 1308 S^4 T^8 + \\
& 974 S^5 T^8 + 3152 S^6 T^8 - 4576 S^7 T^8 + 3152 S^8 T^8 + 974 S^9 T^8 - 1308 S^{10} T^8 + 149 S^{11} T^8 + \\
& 110 S^{12} T^8 - 137 S^3 T^9 + 149 S^4 T^9 + 915 S^5 T^9 - 2286 S^6 T^9 + 974 S^7 T^9 + 974 S^8 T^9 - \\
& 2286 S^9 T^9 + 915 S^{10} T^9 + 149 S^{11} T^9 - 137 S^{12} T^9 + 110 S^4 T^{10} - 337 S^5 T^{10} + 94 S^6 T^{10} + \\
& 915 S^7 T^{10} - 1308 S^8 T^{10} + 915 S^9 T^{10} + 94 S^{10} T^{10} - 337 S^{11} T^{10} + 110 S^{12} T^{10} - 48 S^5 T^{11} + \\
& 210 S^6 T^{11} - 337 S^7 T^{11} + 149 S^8 T^{11} + 149 S^9 T^{11} - 337 S^{10} T^{11} + 210 S^{11} T^{11} - 48 S^{12} T^{11} + \\
& 9 S^6 T^{12} - 48 S^7 T^{12} + 110 S^8 T^{12} - 137 S^9 T^{12} + 110 S^{10} T^{12} - 48 S^{11} T^{12} + 9 S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[10, 114] \rightarrow \frac{1}{S^6 T^6} \left(1 - 5 S + 10 S^2 - 13 S^3 + 10 S^4 - 5 S^5 + S^6 - 5 T + 20 S T - 25 S^2 T + \right.$$

$$\begin{aligned}
& 15 S^3 T + 15 S^4 T - 25 S^5 T + 20 S^6 T - 5 S^7 T + 10 T^2 - 25 S T^2 - 13 S^2 T^2 + 60 S^3 T^2 - \\
& 111 S^4 T^2 + 60 S^5 T^2 - 13 S^6 T^2 - 25 S^7 T^2 + 10 S^8 T^2 - 13 T^3 + 15 S T^3 + 60 S^2 T^3 - 50 S^3 T^3 + \\
& 61 S^4 T^3 + 61 S^5 T^3 - 50 S^6 T^3 + 60 S^7 T^3 + 15 S^8 T^3 - 13 S^9 T^3 + 10 T^4 + 15 S T^4 - 111 S^2 T^4 + \\
& 61 S^3 T^4 - 206 S^4 T^4 + 136 S^5 T^4 - 206 S^6 T^4 + 61 S^7 T^4 - 111 S^8 T^4 + 15 S^9 T^4 + 10 S^{10} T^4 - \\
& 5 T^5 - 25 S T^5 + 60 S^2 T^5 + 61 S^3 T^5 + 136 S^4 T^5 + 36 S^5 T^5 + 36 S^6 T^5 + 136 S^7 T^5 + 61 S^8 T^5 + \\
& 60 S^9 T^5 - 25 S^{10} T^5 - 5 S^{11} T^5 + T^6 + 20 S T^6 - 13 S^2 T^6 - 50 S^3 T^6 - 206 S^4 T^6 + 36 S^5 T^6 - \\
& 192 S^6 T^6 + 36 S^7 T^6 - 206 S^8 T^6 - 50 S^9 T^6 - 13 S^{10} T^6 + 20 S^{11} T^6 + S^{12} T^6 - 5 S T^7 - \\
& 25 S^2 T^7 + 60 S^3 T^7 + 61 S^4 T^7 + 136 S^5 T^7 + 36 S^6 T^7 + 36 S^7 T^7 + 136 S^8 T^7 + 61 S^9 T^7 + \\
& 60 S^{10} T^7 - 25 S^{11} T^7 - 5 S^{12} T^7 + 10 S^2 T^8 + 15 S^3 T^8 - 111 S^4 T^8 + 61 S^5 T^8 - 206 S^6 T^8 + \\
& 136 S^7 T^8 - 206 S^8 T^8 + 61 S^9 T^8 - 111 S^{10} T^8 + 15 S^{11} T^8 + 10 S^{12} T^8 - 13 S^3 T^9 + 15 S^4 T^9 + \\
& 60 S^5 T^9 - 50 S^6 T^9 + 61 S^7 T^9 + 61 S^8 T^9 - 50 S^9 T^9 + 60 S^{10} T^9 + 15 S^{11} T^9 - 13 S^{12} T^9 + \\
& 10 S^4 T^{10} - 25 S^5 T^{10} - 13 S^6 T^{10} + 60 S^7 T^{10} - 111 S^8 T^{10} + 60 S^9 T^{10} - 13 S^{10} T^{10} - 25 S^{11} T^{10} + \\
& 10 S^{12} T^{10} - 5 S^5 T^{11} + 20 S^6 T^{11} - 25 S^7 T^{11} + 15 S^8 T^{11} + 15 S^9 T^{11} - 25 S^{10} T^{11} + 20 S^{11} T^{11} - \\
& 5 S^{12} T^{11} + S^6 T^{12} - 5 S^7 T^{12} + 10 S^8 T^{12} - 13 S^9 T^{12} + 10 S^{10} T^{12} - 5 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[10, 115] \rightarrow 0, \text{Knot}[10, 116] \rightarrow$$

$$\frac{1}{S^8 T^8}$$

$$\begin{aligned}
& \left(1 - 5 S + 12 S^2 - 19 S^3 + 21 S^4 - 19 S^5 + 12 S^6 - 5 S^7 + S^8 - 5 T + 20 S T - 35 S^2 T + 35 S^3 T - \right. \\
& 10 S^4 T - 10 S^5 T + 35 S^6 T - 35 S^7 T + 20 S^8 T - 5 S^9 T + 12 T^2 - 35 S T^2 + 29 S^2 T^2 + 20 S^3 T^2 - \\
& 95 S^4 T^2 + 91 S^5 T^2 - 95 S^6 T^2 + 20 S^7 T^2 + 29 S^8 T^2 - 35 S^9 T^2 + 12 S^{10} T^2 - 19 T^3 + 35 S T^3 + \\
& 20 S^2 T^3 - 102 S^3 T^3 + 149 S^4 T^3 - 12 S^5 T^3 - 12 S^6 T^3 + 149 S^7 T^3 - 102 S^8 T^3 + 20 S^9 T^3 + \\
& 35 S^{10} T^3 - 19 S^{11} T^3 + 21 T^4 - 10 S T^4 - 95 S^2 T^4 + 149 S^3 T^4 - 110 S^4 T^4 - 119 S^5 T^4 + \\
& 18 S^6 T^4 - 119 S^7 T^4 - 110 S^8 T^4 + 149 S^9 T^4 - 95 S^{10} T^4 - 10 S^{11} T^4 + 21 S^{12} T^4 - 19 T^5 - \\
& 10 S T^5 + 91 S^2 T^5 - 12 S^3 T^5 - 119 S^4 T^5 + 300 S^5 T^5 + 30 S^6 T^5 + 30 S^7 T^5 + 300 S^8 T^5 - \\
& 119 S^9 T^5 - 12 S^{10} T^5 + 91 S^{11} T^5 - 10 S^{12} T^5 - 19 S^{13} T^5 + 12 T^6 + 35 S T^6 - 95 S^2 T^6 - \\
& 12 S^3 T^6 + 18 S^4 T^6 + 30 S^5 T^6 - 517 S^6 T^6 + 341 S^7 T^6 - 517 S^8 T^6 + 30 S^9 T^6 + 18 S^{10} T^6 - \\
& 12 S^{11} T^6 - 95 S^{12} T^6 + 35 S^{13} T^6 + 12 S^{14} T^6 - 5 T^7 - 35 S T^7 + 20 S^2 T^7 + 149 S^3 T^7 - \\
& 119 S^4 T^7 + 30 S^5 T^7 + 341 S^6 T^7 + 42 S^7 T^7 + 42 S^8 T^7 + 341 S^9 T^7 + 30 S^{10} T^7 - 119 S^{11} T^7 + \\
& 149 S^{12} T^7 + 20 S^{13} T^7 - 35 S^{14} T^7 - 5 S^{15} T^7 + T^8 + 20 S T^8 + 29 S^2 T^8 - 102 S^3 T^8 - \\
& 110 S^4 T^8 + 300 S^5 T^8 - 517 S^6 T^8 + 42 S^7 T^8 - 216 S^8 T^8 + 42 S^9 T^8 - 517 S^{10} T^8 + 300 S^{11} T^8 -
\end{aligned}$$

$$\begin{aligned}
& 110 S^{12} T^8 - 102 S^{13} T^8 + 29 S^{14} T^8 + 20 S^{15} T^8 + S^{16} T^8 - 5 S T^9 - 35 S^2 T^9 + 20 S^3 T^9 + \\
& 149 S^4 T^9 - 119 S^5 T^9 + 30 S^6 T^9 + 341 S^7 T^9 + 42 S^8 T^9 + 42 S^9 T^9 + 341 S^{10} T^9 + 30 S^{11} T^9 - \\
& 119 S^{12} T^9 + 149 S^{13} T^9 + 20 S^{14} T^9 - 35 S^{15} T^9 - 5 S^{16} T^9 + 12 S^2 T^{10} + 35 S^3 T^{10} - 95 S^4 T^{10} - \\
& 12 S^5 T^{10} + 18 S^6 T^{10} + 30 S^7 T^{10} - 517 S^8 T^{10} + 341 S^9 T^{10} - 517 S^{10} T^{10} + 30 S^{11} T^{10} + \\
& 18 S^{12} T^{10} - 12 S^{13} T^{10} - 95 S^{14} T^{10} + 35 S^{15} T^{10} + 12 S^{16} T^{10} - 19 S^3 T^{11} - 10 S^4 T^{11} + \\
& 91 S^5 T^{11} - 12 S^6 T^{11} - 119 S^7 T^{11} + 300 S^8 T^{11} + 30 S^9 T^{11} + 30 S^{10} T^{11} + 300 S^{11} T^{11} - \\
& 119 S^{12} T^{11} - 12 S^{13} T^{11} + 91 S^{14} T^{11} - 10 S^{15} T^{11} - 19 S^{16} T^{11} + 21 S^4 T^{12} - 10 S^5 T^{12} - \\
& 95 S^6 T^{12} + 149 S^7 T^{12} - 110 S^8 T^{12} - 119 S^9 T^{12} + 18 S^{10} T^{12} - 119 S^{11} T^{12} - 110 S^{12} T^{12} + \\
& 149 S^{13} T^{12} - 95 S^{14} T^{12} - 10 S^{15} T^{12} + 21 S^{16} T^{12} - 19 S^5 T^{13} + 35 S^6 T^{13} + 20 S^7 T^{13} - \\
& 102 S^8 T^{13} + 149 S^9 T^{13} - 12 S^{10} T^{13} - 12 S^{11} T^{13} + 149 S^{12} T^{13} - 102 S^{13} T^{13} + 20 S^{14} T^{13} + \\
& 35 S^{15} T^{13} - 19 S^{16} T^{13} + 12 S^6 T^{14} - 35 S^7 T^{14} + 29 S^8 T^{14} + 20 S^9 T^{14} - 95 S^{10} T^{14} + 91 S^{11} T^{14} - \\
& 95 S^{12} T^{14} + 20 S^{13} T^{14} + 29 S^{14} T^{14} - 35 S^{15} T^{14} + 12 S^{16} T^{14} - 5 S^7 T^{15} + 20 S^8 T^{15} - 35 S^9 T^{15} + \\
& 35 S^{10} T^{15} - 10 S^{11} T^{15} - 10 S^{12} T^{15} + 35 S^{13} T^{15} - 35 S^{14} T^{15} + 20 S^{15} T^{15} - 5 S^{16} T^{15} + S^8 T^{16} - \\
& 5 S^9 T^{16} + 12 S^{10} T^{16} - 19 S^{11} T^{16} + 21 S^{12} T^{16} - 19 S^{13} T^{16} + 12 S^{14} T^{16} - 5 S^{15} T^{16} + S^{16} T^{16}),
\end{aligned}$$

$$\text{Knot}[10, 117] \rightarrow \frac{1}{S^6 T^6} (9 - 44 S + 104 S^2 - 133 S^3 + 104 S^4 - 44 S^5 + 9 S^6 - 44 T + 172 S T -$$

$$\begin{aligned}
& 295 S^2 T + 143 S^3 T + 143 S^4 T - 295 S^5 T + 172 S^6 T - 44 S^7 T + 104 T^2 - 295 S T^2 + 241 S^2 T^2 + \\
& 493 S^3 T^2 - 861 S^4 T^2 + 493 S^5 T^2 + 241 S^6 T^2 - 295 S^7 T^2 + 104 S^8 T^2 - 133 T^3 + 143 S T^3 + \\
& 493 S^2 T^3 - 1678 S^3 T^3 + 847 S^4 T^3 + 847 S^5 T^3 - 1678 S^6 T^3 + 493 S^7 T^3 + 143 S^8 T^3 - 133 S^9 T^3 + \\
& 104 T^4 + 143 S T^4 - 861 S^2 T^4 + 847 S^3 T^4 + 2448 S^4 T^4 - 4036 S^5 T^4 + 2448 S^6 T^4 + 847 S^7 T^4 - \\
& 861 S^8 T^4 + 143 S^9 T^4 + 104 S^{10} T^4 - 44 T^5 - 295 S T^5 + 493 S^2 T^5 + 847 S^3 T^5 - 4036 S^4 T^5 + \\
& 2048 S^5 T^5 + 2048 S^6 T^5 - 4036 S^7 T^5 + 847 S^8 T^5 + 493 S^9 T^5 - 295 S^{10} T^5 - 44 S^{11} T^5 + 9 T^6 + \\
& 172 S T^6 + 241 S^2 T^6 - 1678 S^3 T^6 + 2448 S^4 T^6 + 2048 S^5 T^6 - 4236 S^6 T^6 + 2048 S^7 T^6 + \\
& 2448 S^8 T^6 - 1678 S^9 T^6 + 241 S^{10} T^6 + 172 S^{11} T^6 + 9 S^{12} T^6 - 44 S T^7 - 295 S^2 T^7 + 493 S^3 T^7 + \\
& 847 S^4 T^7 - 4036 S^5 T^7 + 2048 S^6 T^7 + 2048 S^7 T^7 - 4036 S^8 T^7 + 847 S^9 T^7 + 493 S^{10} T^7 - \\
& 295 S^{11} T^7 - 44 S^{12} T^7 + 104 S^2 T^8 + 143 S^3 T^8 - 861 S^4 T^8 + 847 S^5 T^8 + 2448 S^6 T^8 - \\
& 4036 S^7 T^8 + 2448 S^8 T^8 + 847 S^9 T^8 - 861 S^{10} T^8 + 143 S^{11} T^8 + 104 S^{12} T^8 - 133 S^3 T^9 + \\
& 143 S^4 T^9 + 493 S^5 T^9 - 1678 S^6 T^9 + 847 S^7 T^9 + 847 S^8 T^9 - 1678 S^9 T^9 + 493 S^{10} T^9 + \\
& 143 S^{11} T^9 - 133 S^{12} T^9 + 104 S^4 T^{10} - 295 S^5 T^{10} + 241 S^6 T^{10} + 493 S^7 T^{10} - 861 S^8 T^{10} + \\
& 493 S^9 T^{10} + 241 S^{10} T^{10} - 295 S^{11} T^{10} + 104 S^{12} T^{10} - 44 S^5 T^{11} + 172 S^6 T^{11} - 295 S^7 T^{11} + \\
& 143 S^8 T^{11} + 143 S^9 T^{11} - 295 S^{10} T^{11} + 172 S^{11} T^{11} - 44 S^{12} T^{11} + 9 S^6 T^{12} - 44 S^7 T^{12} + \\
& 104 S^8 T^{12} - 133 S^9 T^{12} + 104 S^{10} T^{12} - 44 S^{11} T^{12} + 9 S^{12} T^{12}), \text{Knot}[10, 118] \rightarrow 0,
\end{aligned}$$

$$\text{Knot}[10, 119] \rightarrow -\frac{1}{S^6 T^6} (1 - 4 S + 8 S^2 - 11 S^3 + 8 S^4 - 4 S^5 + S^6 - 4 T + 12 S T - 15 S^2 T + 11 S^3 T +$$

$$\begin{aligned}
& 11 S^4 T - 15 S^5 T + 12 S^6 T - 4 S^7 T + 8 T^2 - 15 S T^2 + 9 S^2 T^2 - 20 S^3 T^2 - 3 S^4 T^2 - 20 S^5 T^2 + 9 S^6 T^2 - \\
& 15 S^7 T^2 + 8 S^8 T^2 - 11 T^3 + 11 S T^3 - 20 S^2 T^3 + 94 S^3 T^3 - 2 S^4 T^3 - 2 S^5 T^3 + 94 S^6 T^3 - 20 S^7 T^3 + \\
& 11 S^8 T^3 - 11 S^9 T^3 + 8 T^4 + 11 S T^4 - 3 S^2 T^4 - 2 S^3 T^4 - 339 S^4 T^4 + 277 S^5 T^4 - 339 S^6 T^4 - 2 S^7 T^4 - \\
& 3 S^8 T^4 + 11 S^9 T^4 + 8 S^{10} T^4 - 4 T^5 - 15 S T^5 - 20 S^2 T^5 - 2 S^3 T^5 + 277 S^4 T^5 + 92 S^5 T^5 + 92 S^6 T^5 + \\
& 277 S^7 T^5 - 2 S^8 T^5 - 20 S^9 T^5 - 15 S^{10} T^5 - 4 S^{11} T^5 + T^6 + 12 S T^6 + 9 S^2 T^6 + 94 S^3 T^6 - 339 S^4 T^6 + \\
& 92 S^5 T^6 - 528 S^6 T^6 + 92 S^7 T^6 - 339 S^8 T^6 + 94 S^9 T^6 + 9 S^{10} T^6 + 12 S^{11} T^6 + S^{12} T^6 - 4 S T^7 - 15 S^2 T^7 - \\
& 20 S^3 T^7 - 2 S^4 T^7 + 277 S^5 T^7 + 92 S^6 T^7 + 92 S^7 T^7 + 277 S^8 T^7 - 2 S^9 T^7 - 20 S^{10} T^7 - 15 S^{11} T^7 - \\
& 4 S^{12} T^7 + 8 S^2 T^8 + 11 S^3 T^8 - 3 S^4 T^8 - 2 S^5 T^8 - 339 S^6 T^8 + 277 S^7 T^8 - 339 S^8 T^8 - 2 S^9 T^8 - \\
& 3 S^{10} T^8 + 11 S^{11} T^8 + 8 S^{12} T^8 - 11 S^3 T^9 + 11 S^4 T^9 - 20 S^5 T^9 + 94 S^6 T^9 - 2 S^7 T^9 - 2 S^8 T^9 + 94 S^9 T^9 - \\
& 20 S^{10} T^9 + 11 S^{11} T^9 - 11 S^{12} T^9 + 8 S^4 T^{10} - 15 S^5 T^{10} + 9 S^6 T^{10} - 20 S^7 T^{10} - 3 S^8 T^{10} - 20 S^9 T^{10} + \\
& 9 S^{10} T^{10} - 15 S^{11} T^{10} + 8 S^{12} T^{10} - 4 S^5 T^{11} + 12 S^6 T^{11} - 15 S^7 T^{11} + 11 S^8 T^{11} + 11 S^9 T^{11} - 15 S^{10} T^{11} + \\
& 12 S^{11} T^{11} - 4 S^{12} T^{11} + S^6 T^{12} - 4 S^7 T^{12} + 8 S^8 T^{12} - 11 S^9 T^{12} + 8 S^{10} T^{12} - 4 S^{11} T^{12} + S^{12} T^{12}),
\end{aligned}$$

$$\text{Knot}[10, 120] \rightarrow -\frac{1}{S^4 T^4} \left(1112 - 3534 S + 5010 S^2 - 3534 S^3 + 1112 S^4 - 3534 T + 7744 S T - 4722 S^2 T - 4722 S^3 T + 7744 S^4 T - 3534 S^5 T + 5010 T^2 - 4722 S T^2 - 8557 S^2 T^2 + 19521 S^3 T^2 - 8557 S^4 T^2 - 4722 S^5 T^2 + 5010 S^6 T^2 - 3534 T^3 - 4722 S T^3 + 19521 S^2 T^3 - 13938 S^3 T^3 - 13938 S^4 T^3 + 19521 S^5 T^3 - 4722 S^6 T^3 - 3534 S^7 T^3 + 1112 T^4 + 7744 S T^4 - 8557 S^2 T^4 - 13938 S^3 T^4 + 33720 S^4 T^4 - 13938 S^5 T^4 - 8557 S^6 T^4 + 7744 S^7 T^4 + 1112 S^8 T^4 - 3534 S T^5 - 4722 S^2 T^5 + 19521 S^3 T^5 - 13938 S^4 T^5 - 13938 S^5 T^5 + 19521 S^6 T^5 - 4722 S^7 T^5 - 3534 S^8 T^5 + 5010 S^2 T^6 - 4722 S^3 T^6 - 8557 S^4 T^6 + 19521 S^5 T^6 - 8557 S^6 T^6 - 4722 S^7 T^6 + 5010 S^8 T^6 - 3534 S^3 T^7 + 7744 S^4 T^7 - 4722 S^5 T^7 - 4722 S^6 T^7 + 7744 S^7 T^7 - 3534 S^8 T^7 + 1112 S^4 T^8 - 3534 S^5 T^8 + 5010 S^6 T^8 - 3534 S^7 T^8 + 1112 S^8 T^8 \right),$$

$$\text{Knot}[10, 121] \rightarrow -\frac{1}{S^6 T^6} \left(9 - 48 S + 116 S^2 - 149 S^3 + 116 S^4 - 48 S^5 + 9 S^6 - 48 T + 208 S T - 362 S^2 T + 176 S^3 T + 176 S^4 T - 362 S^5 T + 208 S^6 T - 48 S^7 T + 116 T^2 - 362 S T^2 + 230 S^2 T^2 + 801 S^3 T^2 - 1314 S^4 T^2 + 801 S^5 T^2 + 230 S^6 T^2 - 362 S^7 T^2 + 116 S^8 T^2 - 149 T^3 + 176 S T^3 + 801 S^2 T^3 - 2432 S^3 T^3 + 1218 S^4 T^3 + 1218 S^5 T^3 - 2432 S^6 T^3 + 801 S^7 T^3 + 176 S^8 T^3 - 149 S^9 T^3 + 116 T^4 + 176 S T^4 - 1314 S^2 T^4 + 1218 S^3 T^4 + 3457 S^4 T^4 - 5713 S^5 T^4 + 3457 S^6 T^4 + 1218 S^7 T^4 - 1314 S^8 T^4 + 176 S^9 T^4 + 116 S^{10} T^4 - 48 T^5 - 362 S T^5 + 801 S^2 T^5 + 1218 S^3 T^5 - 5713 S^4 T^5 + 2906 S^5 T^5 + 2906 S^6 T^5 - 5713 S^7 T^5 + 1218 S^8 T^5 + 801 S^9 T^5 - 362 S^{10} T^5 - 48 S^{11} T^5 + 9 T^6 + 208 S T^6 + 230 S^2 T^6 - 2432 S^3 T^6 + 3457 S^4 T^6 + 2906 S^5 T^6 - 6024 S^6 T^6 + 2906 S^7 T^6 + 3457 S^8 T^6 - 2432 S^9 T^6 + 230 S^{10} T^6 + 208 S^{11} T^6 + 9 S^{12} T^6 - 48 S T^7 - 362 S^2 T^7 + 801 S^3 T^7 + 1218 S^4 T^7 - 5713 S^5 T^7 + 2906 S^6 T^7 + 2906 S^7 T^7 - 5713 S^8 T^7 + 1218 S^9 T^7 + 801 S^{10} T^7 - 362 S^{11} T^7 - 48 S^{12} T^7 + 116 S^2 T^8 + 176 S^3 T^8 - 1314 S^4 T^8 + 1218 S^5 T^8 + 3457 S^6 T^8 - 5713 S^7 T^8 + 3457 S^8 T^8 + 1218 S^9 T^8 - 1314 S^{10} T^8 + 176 S^{11} T^8 + 116 S^{12} T^8 - 149 S^3 T^9 + 176 S^4 T^9 + 801 S^5 T^9 - 2432 S^6 T^9 + 1218 S^7 T^9 + 1218 S^8 T^9 - 2432 S^9 T^9 + 801 S^{10} T^9 + 176 S^{11} T^9 - 149 S^{12} T^9 + 116 S^4 T^{10} - 362 S^5 T^{10} + 230 S^6 T^{10} + 801 S^7 T^{10} - 1314 S^8 T^{10} + 801 S^9 T^{10} + 230 S^{10} T^{10} - 362 S^{11} T^{10} + 116 S^{12} T^{10} - 48 S^5 T^{11} + 208 S^6 T^{11} - 362 S^7 T^{11} + 176 S^8 T^{11} + 176 S^9 T^{11} - 362 S^{10} T^{11} + 208 S^{11} T^{11} - 48 S^{12} T^{11} + 9 S^6 T^{12} - 48 S^7 T^{12} + 116 S^8 T^{12} - 149 S^9 T^{12} + 116 S^{10} T^{12} - 48 S^{11} T^{12} + 9 S^{12} T^{12} \right),$$

$$\text{Knot}[10, 122] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 5 S + 10 S^2 - 13 S^3 + 10 S^4 - 5 S^5 + S^6 - 5 T + 20 S T - 25 S^2 T + 15 S^3 T + 15 S^4 T - 25 S^5 T + 20 S^6 T - 5 S^7 T + 10 T^2 - 25 S T^2 - 17 S^2 T^2 + 68 S^3 T^2 - 123 S^4 T^2 + 68 S^5 T^2 - 17 S^6 T^2 - 25 S^7 T^2 + 10 S^8 T^2 - 13 T^3 + 15 S T^3 + 68 S^2 T^3 - 32 S^3 T^3 + 52 S^4 T^3 + 52 S^5 T^3 - 32 S^6 T^3 + 68 S^7 T^3 + 15 S^8 T^3 - 13 S^9 T^3 + 10 T^4 + 15 S T^4 - 123 S^2 T^4 + 52 S^3 T^4 - 423 S^4 T^4 + 485 S^5 T^4 - 423 S^6 T^4 + 52 S^7 T^4 - 123 S^8 T^4 + 15 S^9 T^4 + 10 S^{10} T^4 - 5 T^5 - 25 S T^5 + 68 S^2 T^5 + 52 S^3 T^5 + 485 S^4 T^5 - 180 S^5 T^5 - 180 S^6 T^5 + 485 S^7 T^5 + 52 S^8 T^5 + 68 S^9 T^5 - 25 S^{10} T^5 - 5 S^{11} T^5 + T^6 + 20 S T^6 - 17 S^2 T^6 - 32 S^3 T^6 - 423 S^4 T^6 - 180 S^5 T^6 + 312 S^6 T^6 - 180 S^7 T^6 - 423 S^8 T^6 - 32 S^9 T^6 - 17 S^{10} T^6 + 20 S^{11} T^6 + S^{12} T^6 - 5 S T^7 - 25 S^2 T^7 + 68 S^3 T^7 + 52 S^4 T^7 + 485 S^5 T^7 - 180 S^6 T^7 - 180 S^7 T^7 + 485 S^8 T^7 + 52 S^9 T^7 + 68 S^{10} T^7 - 25 S^{11} T^7 - 5 S^{12} T^7 + 10 S^2 T^8 + 15 S^3 T^8 - 123 S^4 T^8 + 52 S^5 T^8 - 423 S^6 T^8 + 485 S^7 T^8 - 423 S^8 T^8 + 52 S^9 T^8 - 123 S^{10} T^8 + 15 S^{11} T^8 + 10 S^{12} T^8 - 13 S^3 T^9 + 15 S^4 T^9 + 68 S^5 T^9 - 32 S^6 T^9 + 52 S^7 T^9 + 52 S^8 T^9 - 32 S^9 T^9 + 68 S^{10} T^9 + 15 S^{11} T^9 - 13 S^{12} T^9 + 10 S^4 T^{10} - 25 S^5 T^{10} - 17 S^6 T^{10} + 68 S^7 T^{10} - 123 S^8 T^{10} + 68 S^9 T^{10} - 17 S^{10} T^{10} - 25 S^{11} T^{10} + 10 S^{12} T^{10} - 5 S^5 T^{11} + 20 S^6 T^{11} - 25 S^7 T^{11} + 15 S^8 T^{11} + 15 S^9 T^{11} - 25 S^{10} T^{11} + 20 S^{11} T^{11} - 5 S^{12} T^{11} + S^6 T^{12} - 5 S^7 T^{12} + 10 S^8 T^{12} - 13 S^9 T^{12} + 10 S^{10} T^{12} - 5 S^{11} T^{12} + S^{12} T^{12} \right),$$

$$\text{Knot}[10, 123] \rightarrow 0, \text{Knot}[10, 124] \rightarrow \frac{1}{S^8 T^8} \left(4 - 4 S + 4 S^3 - 4 S^4 + 4 S^5 - 4 S^7 + 4 S^8 - 4 T + 4 S^2 T - 4 S^3 T - 4 S^6 T + 4 S^7 T - 4 S^9 T + 4 S T^2 - 4 S^2 T^2 + 4 S^4 T^2 - 4 S^5 T^2 + 4 S^6 T^2 - 4 S^8 T^2 + 4 S^9 T^2 + 4 T^3 - 4 S T^3 + 6 S^3 T^3 - 6 S^4 T^3 + 3 S^5 T^3 + 3 S^6 T^3 - 6 S^7 T^3 + 6 S^8 T^3 - 4 S^{10} T^3 + 4 S^{11} T^3 - 4 T^4 + 4 S^2 T^4 - 6 S^3 T^4 + 3 S^5 T^4 - 6 S^6 T^4 + 3 S^7 T^4 - 6 S^9 T^4 + 4 S^{10} T^4 - \right.$$

$$\begin{aligned}
& 4 S^{12} T^4 + 4 T^5 - 4 S^2 T^5 + 3 S^3 T^5 + 3 S^4 T^5 - 2 S^5 T^5 + S^6 T^5 + S^7 T^5 - 2 S^8 T^5 + 3 S^9 T^5 + \\
& 3 S^{10} T^5 - 4 S^{11} T^5 + 4 S^{13} T^5 - 4 S T^6 + 4 S^2 T^6 + 3 S^3 T^6 - 6 S^4 T^6 + S^5 T^6 + 2 S^6 T^6 - \\
& 2 S^7 T^6 + 2 S^8 T^6 + S^9 T^6 - 6 S^{10} T^6 + 3 S^{11} T^6 + 4 S^{12} T^6 - 4 S^{13} T^6 - 4 T^7 + 4 S T^7 - 6 S^3 T^7 + \\
& 3 S^4 T^7 + S^5 T^7 - 2 S^6 T^7 - 2 S^9 T^7 + S^{10} T^7 + 3 S^{11} T^7 - 6 S^{12} T^7 + 4 S^{14} T^7 - 4 S^{15} T^7 + 4 T^8 - \\
& 4 S^2 T^8 + 6 S^3 T^8 - 2 S^5 T^8 + 2 S^6 T^8 + 2 S^{10} T^8 - 2 S^{11} T^8 + 6 S^{13} T^8 - 4 S^{14} T^8 + 4 S^{16} T^8 - \\
& 4 S T^9 + 4 S^2 T^9 - 6 S^4 T^9 + 3 S^5 T^9 + S^6 T^9 - 2 S^7 T^9 - 2 S^{10} T^9 + S^{11} T^9 + 3 S^{12} T^9 - 6 S^{13} T^9 + \\
& 4 S^{15} T^9 - 4 S^{16} T^9 - 4 S^3 T^{10} + 4 S^4 T^{10} + 3 S^5 T^{10} - 6 S^6 T^{10} + S^7 T^{10} + 2 S^8 T^{10} - 2 S^9 T^{10} + \\
& 2 S^{10} T^{10} + S^{11} T^{10} - 6 S^{12} T^{10} + 3 S^{13} T^{10} + 4 S^{14} T^{10} - 4 S^{15} T^{10} + 4 S^3 T^{11} - 4 S^5 T^{11} + \\
& 3 S^6 T^{11} + 3 S^7 T^{11} - 2 S^8 T^{11} + S^9 T^{11} + S^{10} T^{11} - 2 S^{11} T^{11} + 3 S^{12} T^{11} + 3 S^{13} T^{11} - 4 S^{14} T^{11} + \\
& 4 S^{16} T^{11} - 4 S^4 T^{12} + 4 S^6 T^{12} - 6 S^7 T^{12} + 3 S^9 T^{12} - 6 S^{10} T^{12} + 3 S^{11} T^{12} - 6 S^{13} T^{12} + \\
& 4 S^{14} T^{12} - 4 S^{16} T^{12} + 4 S^5 T^{13} - 4 S^6 T^{13} + 6 S^8 T^{13} - 6 S^9 T^{13} + 3 S^{10} T^{13} + 3 S^{11} T^{13} - \\
& 6 S^{12} T^{13} + 6 S^{13} T^{13} - 4 S^{15} T^{13} + 4 S^{16} T^{13} + 4 S^7 T^{14} - 4 S^8 T^{14} + 4 S^{10} T^{14} - 4 S^{11} T^{14} + \\
& 4 S^{12} T^{14} - 4 S^{14} T^{14} + 4 S^{15} T^{14} - 4 S^7 T^{15} + 4 S^9 T^{15} - 4 S^{10} T^{15} - 4 S^{13} T^{15} + 4 S^{14} T^{15} - \\
& 4 S^{16} T^{15} + 4 S^8 T^{16} - 4 S^9 T^{16} + 4 S^{11} T^{16} - 4 S^{12} T^{16} + 4 S^{13} T^{16} - 4 S^{15} T^{16} + 4 S^{16} T^{16} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 125] & \rightarrow \frac{1}{S^6 T^6} \left(1 - 2 S + 2 S^2 - S^3 + 2 S^4 - 2 S^5 + S^6 - 2 T + 2 S T - 2 S^3 T - 2 S^4 T + \right. \\
& 2 S^6 T - 2 S^7 T + 2 T^2 - 3 S^2 T^2 + 4 S^3 T^2 + S^4 T^2 + 4 S^5 T^2 - 3 S^6 T^2 + 2 S^8 T^2 - T^3 - 2 S T^3 + \\
& 4 S^2 T^3 - 2 S^3 T^3 - 2 S^4 T^3 - 2 S^5 T^3 - 2 S^6 T^3 + 4 S^7 T^3 - 2 S^8 T^3 - S^9 T^3 + 2 T^4 - 2 S T^4 + \\
& S^2 T^4 - 2 S^3 T^4 - 3 S^4 T^4 + 7 S^5 T^4 - 3 S^6 T^4 - 2 S^7 T^4 + S^8 T^4 - 2 S^9 T^4 + 2 S^{10} T^4 - 2 T^5 + \\
& 4 S^2 T^5 - 2 S^3 T^5 + 7 S^4 T^5 - 2 S^5 T^5 - 2 S^6 T^5 + 7 S^7 T^5 - 2 S^8 T^5 + 4 S^9 T^5 - 2 S^{11} T^5 + \\
& T^6 + 2 S T^6 - 3 S^2 T^6 - 2 S^3 T^6 - 3 S^4 T^6 - 2 S^5 T^6 - 2 S^7 T^6 - 3 S^8 T^6 - 2 S^9 T^6 - 3 S^{10} T^6 + \\
& 2 S^{11} T^6 + S^{12} T^6 - 2 S T^7 + 4 S^3 T^7 - 2 S^4 T^7 + 7 S^5 T^7 - 2 S^6 T^7 - 2 S^7 T^7 + 7 S^8 T^7 - \\
& 2 S^9 T^7 + 4 S^{10} T^7 - 2 S^{12} T^7 + 2 S^2 T^8 - 2 S^3 T^8 + S^4 T^8 - 2 S^5 T^8 - 3 S^6 T^8 + 7 S^7 T^8 - \\
& 3 S^8 T^8 - 2 S^9 T^8 + S^{10} T^8 - 2 S^{11} T^8 + 2 S^{12} T^8 - S^3 T^9 - 2 S^4 T^9 + 4 S^5 T^9 - 2 S^6 T^9 - \\
& 2 S^7 T^9 - 2 S^8 T^9 - 2 S^9 T^9 + 4 S^{10} T^9 - 2 S^{11} T^9 - S^{12} T^9 + 2 S^4 T^{10} - 3 S^6 T^{10} + 4 S^7 T^{10} + \\
& S^8 T^{10} + 4 S^9 T^{10} - 3 S^{10} T^{10} + 2 S^{12} T^{10} - 2 S^5 T^{11} + 2 S^6 T^{11} - 2 S^8 T^{11} - 2 S^9 T^{11} + \\
& 2 S^{11} T^{11} - 2 S^{12} T^{11} + S^6 T^{12} - 2 S^7 T^{12} + 2 S^8 T^{12} - S^9 T^{12} + 2 S^{10} T^{12} - 2 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 126] & \rightarrow -\frac{1}{S^6 T^6} \left(1 - 2 S + 4 S^2 - 5 S^3 + 4 S^4 - 2 S^5 + S^6 - 2 T + 2 S T - 4 S^2 T + 2 S^3 T + 2 S^4 T - \right. \\
& 4 S^5 T + 2 S^6 T - 2 S^7 T + 4 T^2 - 4 S T^2 + 17 S^2 T^2 - 19 S^3 T^2 + 19 S^4 T^2 - 19 S^5 T^2 + 17 S^6 T^2 - 4 S^7 T^2 + \\
& 4 S^8 T^2 - 5 T^3 + 2 S T^3 - 19 S^2 T^3 + 6 S^3 T^3 - S^4 T^3 - S^5 T^3 + 6 S^6 T^3 - 19 S^7 T^3 + 2 S^8 T^3 - 5 S^9 T^3 + \\
& 4 T^4 + 2 S T^4 + 19 S^2 T^4 - S^3 T^4 + 16 S^4 T^4 - 24 S^5 T^4 + 16 S^6 T^4 - S^7 T^4 + 19 S^8 T^4 + 2 S^9 T^4 + 4 S^{10} T^4 - \\
& 2 T^5 - 4 S T^5 - 19 S^2 T^5 - S^3 T^5 - 24 S^4 T^5 + 12 S^5 T^5 + 12 S^6 T^5 - 24 S^7 T^5 - S^8 T^5 - 19 S^9 T^5 - 4 S^{10} T^5 - \\
& 2 S^{11} T^5 + T^6 + 2 S T^6 + 17 S^2 T^6 + 6 S^3 T^6 + 16 S^4 T^6 + 12 S^5 T^6 - 24 S^6 T^6 + 12 S^7 T^6 + 16 S^8 T^6 + 6 S^9 T^6 + \\
& 17 S^{10} T^6 + 2 S^{11} T^6 + S^{12} T^6 - 2 S T^7 - 4 S^2 T^7 - 19 S^3 T^7 - S^4 T^7 - 24 S^5 T^7 + 12 S^6 T^7 + 12 S^7 T^7 - \\
& 24 S^8 T^7 - S^9 T^7 - 19 S^{10} T^7 - 4 S^{11} T^7 - 2 S^{12} T^7 + 4 S^2 T^8 + 2 S^3 T^8 + 19 S^4 T^8 - S^5 T^8 + 16 S^6 T^8 - \\
& 24 S^7 T^8 + 16 S^8 T^8 - S^9 T^8 + 19 S^{10} T^8 + 2 S^{11} T^8 + 4 S^{12} T^8 - 5 S^3 T^9 + 2 S^4 T^9 - 19 S^5 T^9 + 6 S^6 T^9 - S^7 T^9 - \\
& S^8 T^9 + 6 S^9 T^9 - 19 S^{10} T^9 + 2 S^{11} T^9 - 5 S^{12} T^9 + 4 S^4 T^{10} - 4 S^5 T^{10} + 17 S^6 T^{10} - 19 S^7 T^{10} + 19 S^8 T^{10} - \\
& 19 S^9 T^{10} + 17 S^{10} T^{10} - 4 S^{11} T^{10} + 4 S^{12} T^{10} - 2 S^5 T^{11} + 2 S^6 T^{11} - 4 S^7 T^{11} + 2 S^8 T^{11} + 2 S^9 T^{11} - \\
& 4 S^{10} T^{11} + 2 S^{11} T^{11} - 2 S^{12} T^{11} + S^6 T^{12} - 2 S^7 T^{12} + 4 S^8 T^{12} - 5 S^9 T^{12} + 4 S^{10} T^{12} - 2 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 127] & \rightarrow \frac{1}{S^6 T^6} \left(2 - 8 S + 12 S^2 - 14 S^3 + 12 S^4 - 8 S^5 + 2 S^6 - 8 T + 24 S T - 15 S^2 T + \right. \\
& 8 S^3 T + 8 S^4 T - 15 S^5 T + 24 S^6 T - 8 S^7 T + 12 T^2 - 15 S T^2 - 50 S^2 T^2 + 67 S^3 T^2 - 90 S^4 T^2 + \\
& 67 S^5 T^2 - 50 S^6 T^2 - 15 S^7 T^2 + 12 S^8 T^2 - 14 T^3 + 8 S T^3 + 67 S^2 T^3 - 22 S^3 T^3 + 26 S^4 T^3 + \\
& 26 S^5 T^3 - 22 S^6 T^3 + 67 S^7 T^3 + 8 S^8 T^3 - 14 S^9 T^3 + 12 T^4 + 8 S T^4 - 90 S^2 T^4 + 26 S^3 T^4 - \\
& 75 S^4 T^4 + 35 S^5 T^4 - 75 S^6 T^4 + 26 S^7 T^4 - 90 S^8 T^4 + 8 S^9 T^4 + 12 S^{10} T^4 - 8 T^5 - 15 S T^5 +
\end{aligned}$$

$$\begin{aligned}
& 67 S^2 T^5 + 26 S^3 T^5 + 35 S^4 T^5 + 24 S^5 T^5 + 24 S^6 T^5 + 35 S^7 T^5 + 26 S^8 T^5 + 67 S^9 T^5 - \\
& 15 S^{10} T^5 - 8 S^{11} T^5 + 2 T^6 + 24 S T^6 - 50 S^2 T^6 - 22 S^3 T^6 - 75 S^4 T^6 + 24 S^5 T^6 - 84 S^6 T^6 + \\
& 24 S^7 T^6 - 75 S^8 T^6 - 22 S^9 T^6 - 50 S^{10} T^6 + 24 S^{11} T^6 + 2 S^{12} T^6 - 8 S T^7 - 15 S^2 T^7 + \\
& 67 S^3 T^7 + 26 S^4 T^7 + 35 S^5 T^7 + 24 S^6 T^7 + 24 S^7 T^7 + 35 S^8 T^7 + 26 S^9 T^7 + 67 S^{10} T^7 - \\
& 15 S^{11} T^7 - 8 S^{12} T^7 + 12 S^2 T^8 + 8 S^3 T^8 - 90 S^4 T^8 + 26 S^5 T^8 - 75 S^6 T^8 + 35 S^7 T^8 - \\
& 75 S^8 T^8 + 26 S^9 T^8 - 90 S^{10} T^8 + 8 S^{11} T^8 + 12 S^{12} T^8 - 14 S^3 T^9 + 8 S^4 T^9 + 67 S^5 T^9 - \\
& 22 S^6 T^9 + 26 S^7 T^9 + 26 S^8 T^9 - 22 S^9 T^9 + 67 S^{10} T^9 + 8 S^{11} T^9 - 14 S^{12} T^9 + 12 S^4 T^{10} - \\
& 15 S^5 T^{10} - 50 S^6 T^{10} + 67 S^7 T^{10} - 90 S^8 T^{10} + 67 S^9 T^{10} - 50 S^{10} T^{10} - 15 S^{11} T^{10} + \\
& 12 S^{12} T^{10} - 8 S^5 T^{11} + 24 S^6 T^{11} - 15 S^7 T^{11} + 8 S^8 T^{11} + 8 S^9 T^{11} - 15 S^{10} T^{11} + 24 S^{11} T^{11} - \\
& 8 S^{12} T^{11} + 2 S^6 T^{12} - 8 S^7 T^{12} + 12 S^8 T^{12} - 14 S^9 T^{12} + 12 S^{10} T^{12} - 8 S^{11} T^{12} + 2 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 128] & \rightarrow \frac{1}{S^6 T^6} \Big(25 - 37 S + 12 S^2 + 13 S^3 + 12 S^4 - 37 S^5 + 25 S^6 - 37 T + 18 S T + \\
& 37 S^2 T - 37 S^3 T - 37 S^4 T + 37 S^5 T + 18 S^6 T - 37 S^7 T + 12 T^2 + 37 S T^2 - 64 S^2 T^2 + \\
& 15 S^3 T^2 + 40 S^4 T^2 + 15 S^5 T^2 - 64 S^6 T^2 + 37 S^7 T^2 + 12 S^8 T^2 + 13 T^3 - 37 S T^3 + 15 S^2 T^3 + \\
& 32 S^3 T^3 - 27 S^4 T^3 - 27 S^5 T^3 + 32 S^6 T^3 + 15 S^7 T^3 - 37 S^8 T^3 + 13 S^9 T^3 + 12 T^4 - 37 S T^4 + \\
& 40 S^2 T^4 - 27 S^3 T^4 + 18 S^4 T^4 - 20 S^5 T^4 + 18 S^6 T^4 - 27 S^7 T^4 + 40 S^8 T^4 - 37 S^9 T^4 + \\
& 12 S^{10} T^4 - 37 T^5 + 37 S T^5 + 15 S^2 T^5 - 27 S^3 T^5 - 20 S^4 T^5 + 22 S^5 T^5 + 22 S^6 T^5 - 20 S^7 T^5 - \\
& 27 S^8 T^5 + 15 S^9 T^5 + 37 S^{10} T^5 - 37 S^{11} T^5 + 25 T^6 + 18 S T^6 - 64 S^2 T^6 + 32 S^3 T^6 + 18 S^4 T^6 + \\
& 22 S^5 T^6 - 60 S^6 T^6 + 22 S^7 T^6 + 18 S^8 T^6 + 32 S^9 T^6 - 64 S^{10} T^6 + 18 S^{11} T^6 + 25 S^{12} T^6 - \\
& 37 S T^7 + 37 S^2 T^7 + 15 S^3 T^7 - 27 S^4 T^7 - 20 S^5 T^7 + 22 S^6 T^7 + 22 S^7 T^7 - 20 S^8 T^7 - 27 S^9 T^7 + \\
& 15 S^{10} T^7 + 37 S^{11} T^7 - 37 S^{12} T^7 + 12 S^2 T^8 - 37 S^3 T^8 + 40 S^4 T^8 - 27 S^5 T^8 + 18 S^6 T^8 - \\
& 20 S^7 T^8 + 18 S^8 T^8 - 27 S^9 T^8 + 40 S^{10} T^8 - 37 S^{11} T^8 + 12 S^{12} T^8 + 13 S^3 T^9 - 37 S^4 T^9 + \\
& 15 S^5 T^9 + 32 S^6 T^9 - 27 S^7 T^9 - 27 S^8 T^9 + 32 S^9 T^9 + 15 S^{10} T^9 - 37 S^{11} T^9 + 13 S^{12} T^9 + \\
& 12 S^4 T^{10} + 37 S^5 T^{10} - 64 S^6 T^{10} + 15 S^7 T^{10} + 40 S^8 T^{10} + 15 S^9 T^{10} - 64 S^{10} T^{10} + 37 S^{11} T^{10} + \\
& 12 S^{12} T^{10} - 37 S^5 T^{11} + 18 S^6 T^{11} + 37 S^7 T^{11} - 37 S^8 T^{11} - 37 S^9 T^{11} + 37 S^{10} T^{11} + 18 S^{11} T^{11} - \\
& 37 S^{12} T^{11} + 25 S^6 T^{12} - 37 S^7 T^{12} + 12 S^8 T^{12} + 13 S^9 T^{12} + 12 S^{10} T^{12} - 37 S^{11} T^{12} + 25 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 129] & \rightarrow \frac{1}{S^4 T^4} \Big(1 - 2 S + 3 S^2 - 2 S^3 + S^4 - 2 T + 4 S T - 2 S^2 T - 2 S^3 T + 4 S^4 T - 2 S^5 T + \\
& 3 T^2 - 2 S T^2 - 31 S^2 T^2 + 43 S^3 T^2 - 31 S^4 T^2 - 2 S^5 T^2 + 3 S^6 T^2 - 2 T^3 - 2 S T^3 + 43 S^2 T^3 - \\
& 14 S^3 T^3 - 14 S^4 T^3 + 43 S^5 T^3 - 2 S^6 T^3 - 2 S^7 T^3 + T^4 + 4 S T^4 - 31 S^2 T^4 - 14 S^3 T^4 + 12 S^4 T^4 - \\
& 14 S^5 T^4 - 31 S^6 T^4 + 4 S^7 T^4 + S^8 T^4 - 2 S T^5 - 2 S^2 T^5 + 43 S^3 T^5 - 14 S^4 T^5 - 14 S^5 T^5 + 43 S^6 T^5 - \\
& 2 S^7 T^5 - 2 S^8 T^5 + 3 S^2 T^6 - 2 S^3 T^6 - 31 S^4 T^6 + 43 S^5 T^6 - 31 S^6 T^6 - 2 S^7 T^6 + 3 S^8 T^6 - 2 S^3 T^7 + \\
& 4 S^4 T^7 - 2 S^5 T^7 - 2 S^6 T^7 + 4 S^7 T^7 - 2 S^8 T^7 + S^4 T^8 - 2 S^5 T^8 + 3 S^6 T^8 - 2 S^7 T^8 + S^8 T^8 \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 130] & \rightarrow -\frac{1}{S^4 T^4} \Big(1 - 2 S + 3 S^2 - 2 S^3 + S^4 - 2 T + 2 S T - 2 S^2 T - 2 S^3 T + 2 S^4 T - 2 S^5 T + \\
& 3 T^2 - 2 S T^2 + 40 S^2 T^2 - 58 S^3 T^2 + 40 S^4 T^2 - 2 S^5 T^2 + 3 S^6 T^2 - 2 T^3 - 2 S T^3 - 58 S^2 T^3 + \\
& 30 S^3 T^3 + 30 S^4 T^3 - 58 S^5 T^3 - 2 S^6 T^3 - 2 S^7 T^3 + T^4 + 2 S T^4 + 40 S^2 T^4 + 30 S^3 T^4 - 60 S^4 T^4 + \\
& 30 S^5 T^4 + 40 S^6 T^4 + 2 S^7 T^4 + S^8 T^4 - 2 S T^5 - 2 S^2 T^5 - 58 S^3 T^5 + 30 S^4 T^5 + 30 S^5 T^5 - 58 S^6 T^5 - \\
& 2 S^7 T^5 - 2 S^8 T^5 + 3 S^2 T^6 - 2 S^3 T^6 + 40 S^4 T^6 - 58 S^5 T^6 + 40 S^6 T^6 - 2 S^7 T^6 + 3 S^8 T^6 - 2 S^3 T^7 + \\
& 2 S^4 T^7 - 2 S^5 T^7 - 2 S^6 T^7 + 2 S^7 T^7 - 2 S^8 T^7 + S^4 T^8 - 2 S^5 T^8 + 3 S^6 T^8 - 2 S^7 T^8 + S^8 T^8 \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 131] & \rightarrow \frac{1}{S^4 T^4} \Big(9 - 36 S + 49 S^2 - 36 S^3 + 9 S^4 - 36 T + 108 S T - 48 S^2 T - 48 S^3 T + \\
& 108 S^4 T - 36 S^5 T + 49 T^2 - 48 S T^2 - 284 S^2 T^2 + 398 S^3 T^2 - 284 S^4 T^2 - 48 S^5 T^2 + 49 S^6 T^2 - \\
& 36 T^3 - 48 S T^3 + 398 S^2 T^3 - 152 S^3 T^3 - 152 S^4 T^3 + 398 S^5 T^3 - 48 S^6 T^3 - 36 S^7 T^3 + 9 T^4 + \\
& 108 S T^4 - 284 S^2 T^4 - 152 S^3 T^4 + 240 S^4 T^4 - 152 S^5 T^4 - 284 S^6 T^4 + 108 S^7 T^4 + 9 S^8 T^4 - \\
& 36 S T^5 - 48 S^2 T^5 + 398 S^3 T^5 - 152 S^4 T^5 - 152 S^5 T^5 + 398 S^6 T^5 - 48 S^7 T^5 - 36 S^8 T^5 + 49 S^2 T^6 -
\end{aligned}$$

$$48 S^3 T^6 - 284 S^4 T^6 + 398 S^5 T^6 - 284 S^6 T^6 - 48 S^7 T^6 + 49 S^8 T^6 - 36 S^3 T^7 + 108 S^4 T^7 - 48 S^5 T^7 - 48 S^6 T^7 + 108 S^7 T^7 - 36 S^8 T^7 + 9 S^4 T^8 - 36 S^5 T^8 + 49 S^6 T^8 - 36 S^7 T^8 + 9 S^8 T^8),$$

$$\text{Knot}[10, 132] \rightarrow -\frac{1}{S^3 T^3} (2 - S - S^2 + 2 S^3 - T + 5 S T - 7 S^2 T + 5 S^3 T - S^4 T - T^2 - 7 S T^2 + 2 S^2 T^2 + 2 S^3 T^2 - 7 S^4 T^2 - S^5 T^2 + 2 T^3 + 5 S T^3 + 2 S^2 T^3 + 2 S^4 T^3 + 5 S^5 T^3 + 2 S^6 T^3 - S T^4 - 7 S^2 T^4 + 2 S^3 T^4 + 2 S^4 T^4 - 7 S^5 T^4 - S^6 T^4 - S^2 T^5 + 5 S^3 T^5 - 7 S^4 T^5 + 5 S^5 T^5 - S^6 T^5 + 2 S^3 T^6 - S^4 T^6 - S^5 T^6 + 2 S^6 T^6),$$

$$\text{Knot}[10, 133] \rightarrow \frac{1}{S^4 T^4} (1 - 5 S + 7 S^2 - 5 S^3 + S^4 - 5 T + 22 S T - 9 S^2 T - 9 S^3 T + 22 S^4 T - 5 S^5 T + 7 T^2 - 9 S T^2 - 94 S^2 T^2 + 126 S^3 T^2 - 94 S^4 T^2 - 9 S^5 T^2 + 7 S^6 T^2 - 5 T^3 - 9 S T^3 + 126 S^2 T^3 - 44 S^3 T^3 - 44 S^4 T^3 + 126 S^5 T^3 - 9 S^6 T^3 - 5 S^7 T^3 + T^4 + 22 S T^4 - 94 S^2 T^4 - 44 S^3 T^4 + 60 S^4 T^4 - 44 S^5 T^4 - 94 S^6 T^4 + 22 S^7 T^4 + S^8 T^4 - 5 S T^5 - 9 S^2 T^5 + 126 S^3 T^5 - 44 S^4 T^5 - 44 S^5 T^5 + 126 S^6 T^5 - 9 S^7 T^5 - 5 S^8 T^5 + 7 S^2 T^6 - 9 S^3 T^6 - 94 S^4 T^6 + 126 S^5 T^6 - 94 S^6 T^6 - 9 S^7 T^6 + 7 S^8 T^6 - 5 S^3 T^7 + 22 S^4 T^7 - 9 S^5 T^7 - 9 S^6 T^7 + 22 S^7 T^7 - 5 S^8 T^7 + S^4 T^8 - 5 S^5 T^8 + 7 S^6 T^8 - 5 S^7 T^8 + S^8 T^8),$$

$$\text{Knot}[10, 134] \rightarrow \frac{1}{S^6 T^6} (25 - 49 S + 48 S^2 - 35 S^3 + 48 S^4 - 49 S^5 + 25 S^6 - 49 T + 48 S T + S^2 T - 25 S^3 T - 25 S^4 T + S^5 T + 48 S^6 T - 49 S^7 T + 48 T^2 + S T^2 - 54 S^2 T^2 + 34 S^3 T^2 + 36 S^4 T^2 + 34 S^5 T^2 - 54 S^6 T^2 + S^7 T^2 + 48 S^8 T^2 - 35 T^3 - 25 S T^3 + 34 S^2 T^3 + 8 S^3 T^3 - 42 S^4 T^3 - 42 S^5 T^3 + 8 S^6 T^3 + 34 S^7 T^3 - 25 S^8 T^3 - 35 S^9 T^3 + 48 T^4 - 25 S T^4 + 36 S^2 T^4 - 42 S^3 T^4 + 60 S^4 T^4 - 20 S^5 T^4 + 60 S^6 T^4 - 42 S^7 T^4 + 36 S^8 T^4 - 25 S^9 T^4 + 48 S^{10} T^4 - 49 T^5 + S T^5 + 34 S^2 T^5 - 42 S^3 T^5 - 20 S^4 T^5 - 20 S^7 T^5 - 42 S^8 T^5 + 34 S^9 T^5 + S^{10} T^5 - 49 S^{11} T^5 + 25 T^6 + 48 S T^6 - 54 S^2 T^6 + 8 S^3 T^6 + 60 S^4 T^6 - 12 S^6 T^6 + 60 S^8 T^6 + 8 S^9 T^6 - 54 S^{10} T^6 + 48 S^{11} T^6 + 25 S^{12} T^6 - 49 S T^7 + S^2 T^7 + 34 S^3 T^7 - 42 S^4 T^7 - 20 S^5 T^7 - 20 S^8 T^7 - 42 S^9 T^7 + 34 S^{10} T^7 + S^{11} T^7 - 49 S^{12} T^7 + 48 S^2 T^8 - 25 S^3 T^8 + 36 S^4 T^8 - 42 S^5 T^8 + 60 S^6 T^8 - 20 S^7 T^8 + 60 S^8 T^8 - 42 S^9 T^8 + 36 S^{10} T^8 - 25 S^{11} T^8 + 48 S^{12} T^8 - 35 S^3 T^9 - 25 S^4 T^9 + 34 S^5 T^9 + 8 S^6 T^9 - 42 S^7 T^9 - 42 S^8 T^9 + 8 S^9 T^9 + 34 S^{10} T^9 - 25 S^{11} T^9 - 35 S^{12} T^9 + 48 S^4 T^{10} + S^5 T^{10} - 54 S^6 T^{10} + 34 S^7 T^{10} + 36 S^8 T^{10} + 34 S^9 T^{10} - 54 S^{10} T^{10} + S^{11} T^{10} + 48 S^{12} T^{10} - 49 S^5 T^{11} + 48 S^6 T^{11} + S^7 T^{11} - 25 S^8 T^{11} - 25 S^9 T^{11} + S^{10} T^{11} + 48 S^{11} T^{11} - 49 S^{12} T^{11} + 25 S^6 T^{12} - 49 S^7 T^{12} + 48 S^8 T^{12} - 35 S^9 T^{12} + 48 S^{10} T^{12} - 49 S^{11} T^{12} + 25 S^{12} T^{12}),$$

$$\text{Knot}[10, 135] \rightarrow -\frac{1}{S^4 T^4} (3 - 9 S + 13 S^2 - 9 S^3 + 3 S^4 - 9 T + 16 S T - 11 S^2 T - 11 S^3 T + 16 S^4 T - 9 S^5 T + 13 T^2 - 11 S T^2 + 13 S^2 T^2 + S^3 T^2 + 13 S^4 T^2 - 11 S^5 T^2 + 13 S^6 T^2 - 9 T^3 - 11 S T^3 + S^2 T^3 - 14 S^3 T^3 - 14 S^4 T^3 + S^5 T^3 - 11 S^6 T^3 - 9 S^7 T^3 + 3 T^4 + 16 S T^4 + 13 S^2 T^4 - 14 S^3 T^4 + 48 S^4 T^4 - 14 S^5 T^4 + 13 S^6 T^4 + 16 S^7 T^4 + 3 S^8 T^4 - 9 S T^5 - 11 S^2 T^5 + S^3 T^5 - 14 S^4 T^5 - 14 S^5 T^5 + S^6 T^5 - 11 S^7 T^5 - 9 S^8 T^5 + 13 S^2 T^6 - 11 S^3 T^6 + 13 S^4 T^6 + S^5 T^6 + 13 S^6 T^6 - 11 S^7 T^6 + 13 S^8 T^6 - 9 S^3 T^7 + 16 S^4 T^7 - 11 S^5 T^7 - 11 S^6 T^7 + 16 S^7 T^7 - 9 S^8 T^7 + 3 S^4 T^8 - 9 S^5 T^8 + 13 S^6 T^8 - 9 S^7 T^8 + 3 S^8 T^8),$$

$$\text{Knot}[10, 136] \rightarrow -\frac{1}{S^4 T^4} (1 - 4 S + 5 S^2 - 4 S^3 + S^4 - 4 T + 12 S T - 5 S^2 T - 5 S^3 T + 12 S^4 T - 4 S^5 T + 5 T^2 - 5 S T^2 - 23 S^2 T^2 + 35 S^3 T^2 - 23 S^4 T^2 - 5 S^5 T^2 + 5 S^6 T^2 - 4 T^3 - 5 S T^3 + 35 S^2 T^3 - 24 S^3 T^3 - 24 S^4 T^3 + 35 S^5 T^3 - 5 S^6 T^3 - 4 S^7 T^3 + T^4 + 12 S T^4 - 23 S^2 T^4 - 24 S^3 T^4 + 72 S^4 T^4 - 24 S^5 T^4 - 23 S^6 T^4 + 12 S^7 T^4 + S^8 T^4 - 4 S T^5 - 5 S^2 T^5 + 35 S^3 T^5 - 24 S^4 T^5 - 24 S^5 T^5 + 35 S^6 T^5 - 5 S^7 T^5 - 4 S^8 T^5 + 5 S^2 T^6 - 5 S^3 T^6 - 23 S^4 T^6 + 35 S^5 T^6 - 23 S^6 T^6 - 5 S^7 T^6 + 5 S^8 T^6 - 4 S^3 T^7 + 12 S^4 T^7 - 5 S^5 T^7 - 5 S^6 T^7 + 12 S^7 T^7 - 4 S^8 T^7 + S^4 T^8 - 4 S^5 T^8 + 5 S^6 T^8 - 4 S^7 T^8 + S^8 T^8),$$

$$\text{Knot}[10, 137] \rightarrow -\frac{2(1 - 3 S + S^2)(1 - 3 T + T^2)(1 - 3 S T + S^2 T^2)(1 + S + T - 6 S T + S^2 T + S T^2 + S^2 T^2)}{S^3 T^3},$$

Knot [10, 138] $\rightarrow$

$$\frac{1}{S^6 T^6} \left(1 - 5S + 8S^2 - 7S^3 + 8S^4 - 5S^5 + S^6 - 5T + 20ST - 15S^2T - 5S^3T - 5S^4T - 15S^5T + 20S^6T - \right. \\
5S^7T + 8T^2 - 15ST^2 - 51S^2T^2 + 98S^3T^2 - 41S^4T^2 + 98S^5T^2 - 51S^6T^2 - 15S^7T^2 + \\
8S^8T^2 - 7T^3 - 5ST^3 + 98S^2T^3 - 72S^3T^3 - 52S^4T^3 - 52S^5T^3 - 72S^6T^3 + 98S^7T^3 - \\
5S^8T^3 - 7S^9T^3 + 8T^4 - 5ST^4 - 41S^2T^4 - 52S^3T^4 + 171S^4T^4 - 81S^5T^4 + 171S^6T^4 - \\
52S^7T^4 - 41S^8T^4 - 5S^9T^4 + 8S^{10}T^4 - 5T^5 - 15ST^5 + 98S^2T^5 - 52S^3T^5 - 81S^4T^5 + \\
28S^5T^5 + 28S^6T^5 - 81S^7T^5 - 52S^8T^5 + 98S^9T^5 - 15S^{10}T^5 - 5S^{11}T^5 + T^6 + 20ST^6 - \\
51S^2T^6 - 72S^3T^6 + 171S^4T^6 + 28S^5T^6 - 156S^6T^6 + 28S^7T^6 + 171S^8T^6 - 72S^9T^6 - \\
51S^{10}T^6 + 20S^{11}T^6 + S^{12}T^6 - 5ST^7 - 15S^2T^7 + 98S^3T^7 - 52S^4T^7 - 81S^5T^7 + 28S^6T^7 + \\
28S^7T^7 - 81S^8T^7 - 52S^9T^7 + 98S^{10}T^7 - 15S^{11}T^7 - 5S^{12}T^7 + 8S^2T^8 - 5S^3T^8 - 41S^4T^8 - \\
52S^5T^8 + 171S^6T^8 - 81S^7T^8 + 171S^8T^8 - 52S^9T^8 - 41S^{10}T^8 - 5S^{11}T^8 + 8S^{12}T^8 - \\
7S^3T^9 - 5S^4T^9 + 98S^5T^9 - 72S^6T^9 - 52S^7T^9 - 52S^8T^9 - 72S^9T^9 + 98S^{10}T^9 - 5S^{11}T^9 - \\
7S^{12}T^9 + 8S^4T^{10} - 15S^5T^{10} - 51S^6T^{10} + 98S^7T^{10} - 41S^8T^{10} + 98S^9T^{10} - 51S^{10}T^{10} - \\
15S^{11}T^{10} + 8S^{12}T^{10} - 5S^5T^{11} + 20S^6T^{11} - 15S^7T^{11} - 5S^8T^{11} - 5S^9T^{11} - 15S^{10}T^{11} + \\
20S^{11}T^{11} - 5S^{12}T^{11} + S^6T^{12} - 5S^7T^{12} + 8S^8T^{12} - 7S^9T^{12} + 8S^{10}T^{12} - 5S^{11}T^{12} + S^{12}T^{12} \Big),$$

Knot [10, 139] $\rightarrow \frac{1}{S^8 T^8} \left(4 - 4S + 8S^3 - 12S^4 + 8S^5 - 4S^7 + 4S^8 - 4T + 4S^2T - 8S^3T + \right.$

$$4S^4T + 4S^5T - 8S^6T + 4S^7T - 4S^9T + 4ST^2 - 4S^2T^2 + 8S^4T^2 - 12S^5T^2 + 8S^6T^2 - \\
4S^8T^2 + 4S^9T^2 + 8T^3 - 8ST^3 + 18S^3T^3 - 24S^4T^3 + 12S^5T^3 + 12S^6T^3 - 24S^7T^3 + \\
18S^8T^3 - 8S^{10}T^3 + 8S^{11}T^3 - 12T^4 + 4ST^4 + 8S^2T^4 - 24S^3T^4 + 13S^4T^4 + 8S^5T^4 - \\
23S^6T^4 + 8S^7T^4 + 13S^8T^4 - 24S^9T^4 + 8S^{10}T^4 + 4S^{11}T^4 - 12S^{12}T^4 + 8T^5 + 4ST^5 - \\
12S^2T^5 + 12S^3T^5 + 8S^4T^5 - 20S^5T^5 + 13S^6T^5 + 13S^7T^5 - 20S^8T^5 + 8S^9T^5 + \\
12S^{10}T^5 - 12S^{11}T^5 + 4S^{12}T^5 + 8S^{13}T^5 - 8ST^6 + 8S^2T^6 + 12S^3T^6 - 23S^4T^6 + 13S^5T^6 + \\
17S^6T^6 - 35S^7T^6 + 17S^8T^6 + 13S^9T^6 - 23S^{10}T^6 + 12S^{11}T^6 + 8S^{12}T^6 - 8S^{13}T^6 - \\
4T^7 + 4ST^7 - 24S^3T^7 + 8S^4T^7 + 13S^5T^7 - 35S^6T^7 + 18S^7T^7 + 18S^8T^7 - 35S^9T^7 + \\
13S^{10}T^7 + 8S^{11}T^7 - 24S^{12}T^7 + 4S^{14}T^7 - 4S^{15}T^7 + 4T^8 - 4S^2T^8 + 18S^3T^8 + 13S^4T^8 - \\
20S^5T^8 + 17S^6T^8 + 18S^7T^8 - 36S^8T^8 + 18S^9T^8 + 17S^{10}T^8 - 20S^{11}T^8 + 13S^{12}T^8 + \\
18S^{13}T^8 - 4S^{14}T^8 + 4S^{16}T^8 - 4ST^9 + 4S^2T^9 - 24S^4T^9 + 8S^5T^9 + 13S^6T^9 - 35S^7T^9 + \\
18S^8T^9 + 18S^9T^9 - 35S^{10}T^9 + 13S^{11}T^9 + 8S^{12}T^9 - 24S^{13}T^9 + 4S^{15}T^9 - 4S^{16}T^9 - \\
8S^3T^{10} + 8S^4T^{10} + 12S^5T^{10} - 23S^6T^{10} + 13S^7T^{10} + 17S^8T^{10} - 35S^9T^{10} + 17S^{10}T^{10} + \\
13S^{11}T^{10} - 23S^{12}T^{10} + 12S^{13}T^{10} + 8S^{14}T^{10} - 8S^{15}T^{10} + 8S^3T^{11} + 4S^4T^{11} - 12S^5T^{11} + \\
12S^6T^{11} + 8S^7T^{11} - 20S^8T^{11} + 13S^9T^{11} + 13S^{10}T^{11} - 20S^{11}T^{11} + 8S^{12}T^{11} + 12S^{13}T^{11} - \\
12S^{14}T^{11} + 4S^{15}T^{11} + 8S^{16}T^{11} - 12S^4T^{12} + 4S^5T^{12} + 8S^6T^{12} - 24S^7T^{12} + 13S^8T^{12} + \\
8S^9T^{12} - 23S^{10}T^{12} + 8S^{11}T^{12} + 13S^{12}T^{12} - 24S^{13}T^{12} + 8S^{14}T^{12} + 4S^{15}T^{12} - 12S^{16}T^{12} + \\
8S^5T^{13} - 8S^6T^{13} + 18S^8T^{13} - 24S^9T^{13} + 12S^{10}T^{13} + 12S^{11}T^{13} - 24S^{12}T^{13} + 18S^{13}T^{13} - \\
8S^{15}T^{13} + 8S^{16}T^{13} + 4S^7T^{14} - 4S^8T^{14} + 8S^{10}T^{14} - 12S^{11}T^{14} + 8S^{12}T^{14} - 4S^{14}T^{14} + \\
4S^{15}T^{14} - 4S^7T^{15} + 4S^9T^{15} - 8S^{10}T^{15} + 4S^{11}T^{15} + 4S^{12}T^{15} - 8S^{13}T^{15} + 4S^{14}T^{15} - \\
4S^{16}T^{15} + 4S^8T^{16} - 4S^9T^{16} + 8S^{11}T^{16} - 12S^{12}T^{16} + 8S^{13}T^{16} - 4S^{15}T^{16} + 4S^{16}T^{16} \Big),$$

Knot [10, 140] $\rightarrow -\frac{1}{S^2 T^2} 4 \left(3 - 4S + 3S^2 - 4T + ST + S^2T - 4S^3T + 3T^2 + ST^2 + S^3T^2 + \right.$

$$3S^4T^2 - 4ST^3 + S^2T^3 + S^3T^3 - 4S^4T^3 + 3S^2T^4 - 4S^3T^4 + 3S^4T^4 \Big),$$

Knot [10, 141] $\rightarrow \frac{1}{S^4 T^4} \left(1 - 4S + 5S^2 - 4S^3 + S^4 - 4T + 12ST - 3S^2T - 3S^3T + 12S^4T - \right.$

$$4S^5T + 5T^2 - 3ST^2 - 35S^2T^2 + 33S^3T^2 - 35S^4T^2 - 3S^5T^2 + 5S^6T^2 - 4T^3 - 3ST^3 + 33S^2T^3 +$$

$$4 S^3 T^3 + 4 S^4 T^3 + 33 S^5 T^3 - 3 S^6 T^3 - 4 S^7 T^3 + T^4 + 12 S T^4 - 35 S^2 T^4 + 4 S^3 T^4 - 36 S^4 T^4 + 4 S^5 T^4 - 35 S^6 T^4 + 12 S^7 T^4 + S^8 T^4 - 4 S T^5 - 3 S^2 T^5 + 33 S^3 T^5 + 4 S^4 T^5 + 4 S^5 T^5 + 33 S^6 T^5 - 3 S^7 T^5 - 4 S^8 T^5 + 5 S^2 T^6 - 3 S^3 T^6 - 35 S^4 T^6 + 33 S^5 T^6 - 35 S^6 T^6 - 3 S^7 T^6 + 5 S^8 T^6 - 4 S^3 T^7 + 12 S^4 T^7 - 3 S^5 T^7 - 3 S^6 T^7 + 12 S^7 T^7 - 4 S^8 T^7 + S^4 T^8 - 4 S^5 T^8 + 5 S^6 T^8 - 4 S^7 T^8 + S^8 T^8),$$

$$\text{Knot}[10, 142] \rightarrow \frac{1}{S^6 T^6} (25 - 37 S + 24 S^2 - 11 S^3 + 24 S^4 - 37 S^5 + 25 S^6 - 37 T + 18 S T + 19 S^2 T - 19 S^3 T - 19 S^4 T + 19 S^5 T + 18 S^6 T - 37 S^7 T + 24 T^2 + 19 S T^2 - 38 S^2 T^2 + 12 S^3 T^2 + 16 S^4 T^2 + 12 S^5 T^2 - 38 S^6 T^2 + 19 S^7 T^2 + 24 S^8 T^2 - 11 T^3 - 19 S T^3 + 12 S^2 T^3 + 8 S^3 T^3 - 11 S^4 T^3 - 11 S^5 T^3 + 8 S^6 T^3 + 12 S^7 T^3 - 19 S^8 T^3 - 11 S^9 T^3 + 24 T^4 - 19 S T^4 + 16 S^2 T^4 - 11 S^3 T^4 + 20 S^4 T^4 - 22 S^5 T^4 + 20 S^6 T^4 - 11 S^7 T^4 + 16 S^8 T^4 - 19 S^9 T^4 + 24 S^{10} T^4 - 37 T^5 + 19 S T^5 + 12 S^2 T^5 - 11 S^3 T^5 - 22 S^4 T^5 + 14 S^5 T^5 + 14 S^6 T^5 - 22 S^7 T^5 - 11 S^8 T^5 + 12 S^9 T^5 + 19 S^{10} T^5 - 37 S^{11} T^5 + 25 T^6 + 18 S T^6 - 38 S^2 T^6 + 8 S^3 T^6 + 20 S^4 T^6 + 14 S^5 T^6 - 36 S^6 T^6 + 14 S^7 T^6 + 20 S^8 T^6 + 8 S^9 T^6 - 38 S^{10} T^6 + 18 S^{11} T^6 + 25 S^{12} T^6 - 37 S T^7 + 19 S^2 T^7 + 12 S^3 T^7 - 11 S^4 T^7 - 22 S^5 T^7 + 14 S^6 T^7 + 14 S^7 T^7 - 22 S^8 T^7 - 11 S^9 T^7 + 12 S^{10} T^7 + 19 S^{11} T^7 - 37 S^{12} T^7 + 24 S^2 T^8 - 19 S^3 T^8 + 16 S^4 T^8 - 11 S^5 T^8 + 20 S^6 T^8 - 22 S^7 T^8 + 20 S^8 T^8 - 11 S^9 T^8 + 16 S^{10} T^8 - 19 S^{11} T^8 + 24 S^{12} T^8 - 11 S^3 T^9 - 19 S^4 T^9 + 12 S^5 T^9 + 8 S^6 T^9 - 11 S^7 T^9 - 11 S^8 T^9 + 8 S^9 T^9 + 12 S^{10} T^9 - 19 S^{11} T^9 - 11 S^{12} T^9 + 24 S^4 T^{10} + 19 S^5 T^{10} - 38 S^6 T^{10} + 12 S^7 T^{10} + 16 S^8 T^{10} + 12 S^9 T^{10} - 38 S^{10} T^{10} + 19 S^{11} T^{10} + 24 S^{12} T^{10} - 37 S^5 T^{11} + 18 S^6 T^{11} + 19 S^7 T^{11} - 19 S^8 T^{11} - 19 S^9 T^{11} + 19 S^{10} T^{11} + 18 S^{11} T^{11} - 37 S^{12} T^{11} + 25 S^6 T^{12} - 37 S^7 T^{12} + 24 S^8 T^{12} - 11 S^9 T^{12} + 24 S^{10} T^{12} - 37 S^{11} T^{12} + 25 S^{12} T^{12}),$$

$$\text{Knot}[10, 143] \rightarrow -\frac{1}{S^6 T^6} (1 - 3 S + 6 S^2 - 7 S^3 + 6 S^4 - 3 S^5 + S^6 - 3 T + 6 S T - 9 S^2 T + 3 S^3 T + 3 S^4 T - 9 S^5 T + 6 S^6 T - 3 S^7 T + 6 T^2 - 9 S T^2 + 20 S^2 T^2 - 16 S^3 T^2 + 22 S^4 T^2 - 16 S^5 T^2 + 20 S^6 T^2 - 9 S^7 T^2 + 6 S^8 T^2 - 7 T^3 + 3 S T^3 - 16 S^2 T^3 - 2 S^3 T^3 - 9 S^4 T^3 - 9 S^5 T^3 - 2 S^6 T^3 - 16 S^7 T^3 + 3 S^8 T^3 - 7 S^9 T^3 + 6 T^4 + 3 S T^4 + 22 S^2 T^4 - 9 S^3 T^4 + 54 S^4 T^4 - 36 S^5 T^4 + 54 S^6 T^4 - 9 S^7 T^4 + 22 S^8 T^4 + 3 S^9 T^4 + 6 S^{10} T^4 - 3 T^5 - 9 S T^5 - 16 S^2 T^5 - 9 S^3 T^5 - 36 S^4 T^5 - 10 S^5 T^5 - 10 S^6 T^5 - 36 S^7 T^5 - 9 S^8 T^5 - 16 S^9 T^5 - 9 S^{10} T^5 - 3 S^{11} T^5 + T^6 + 6 S T^6 + 20 S^2 T^6 - 2 S^3 T^6 + 54 S^4 T^6 - 10 S^5 T^6 + 48 S^6 T^6 - 10 S^7 T^6 + 54 S^8 T^6 - 2 S^9 T^6 + 20 S^{10} T^6 + 6 S^{11} T^6 + S^{12} T^6 - 3 S T^7 - 9 S^2 T^7 - 16 S^3 T^7 - 9 S^4 T^7 - 36 S^5 T^7 - 10 S^6 T^7 - 10 S^7 T^7 - 36 S^8 T^7 - 9 S^9 T^7 - 16 S^{10} T^7 - 9 S^{11} T^7 - 3 S^{12} T^7 + 6 S^2 T^8 + 3 S^3 T^8 + 22 S^4 T^8 - 9 S^5 T^8 + 54 S^6 T^8 - 36 S^7 T^8 + 54 S^8 T^8 - 9 S^9 T^8 + 22 S^{10} T^8 + 3 S^{11} T^8 + 6 S^{12} T^8 - 7 S^3 T^9 + 3 S^4 T^9 - 16 S^5 T^9 - 2 S^6 T^9 - 9 S^7 T^9 - 9 S^8 T^9 - 2 S^9 T^9 - 16 S^{10} T^9 + 3 S^{11} T^9 - 7 S^{12} T^9 + 6 S^4 T^{10} - 9 S^5 T^{10} + 20 S^6 T^{10} - 16 S^7 T^{10} + 22 S^8 T^{10} - 16 S^9 T^{10} + 20 S^{10} T^{10} - 9 S^{11} T^{10} + 6 S^{12} T^{10} - 3 S^5 T^{11} + 6 S^6 T^{11} - 9 S^7 T^{11} + 3 S^8 T^{11} + 3 S^9 T^{11} - 9 S^{10} T^{11} + 6 S^{11} T^{11} - 3 S^{12} T^{11} + S^6 T^{12} - 3 S^7 T^{12} + 6 S^8 T^{12} - 7 S^9 T^{12} + 6 S^{10} T^{12} - 3 S^{11} T^{12} + S^{12} T^{12}),$$

$$\text{Knot}[10, 144] \rightarrow \frac{1}{S^4 T^4} 2 (15 - 48 S + 61 S^2 - 48 S^3 + 15 S^4 - 48 T + 106 S T - 42 S^2 T - 42 S^3 T + 106 S^4 T - 48 S^5 T + 61 T^2 - 42 S T^2 - 189 S^2 T^2 + 251 S^3 T^2 - 189 S^4 T^2 - 42 S^5 T^2 + 61 S^6 T^2 - 48 T^3 - 42 S T^3 + 251 S^2 T^3 - 86 S^3 T^3 - 86 S^4 T^3 + 251 S^5 T^3 - 42 S^6 T^3 - 48 S^7 T^3 + 15 T^4 + 106 S T^4 - 189 S^2 T^4 - 86 S^3 T^4 + 132 S^4 T^4 - 86 S^5 T^4 - 189 S^6 T^4 + 106 S^7 T^4 + 15 S^8 T^4 - 48 S T^5 - 42 S^2 T^5 + 251 S^3 T^5 - 86 S^4 T^5 - 86 S^5 T^5 + 251 S^6 T^5 - 42 S^7 T^5 - 48 S^8 T^5 + 61 S^2 T^6 - 42 S^3 T^6 - 189 S^4 T^6 + 251 S^5 T^6 - 189 S^6 T^6 - 42 S^7 T^6 + 61 S^8 T^6 - 48 S^3 T^7 + 106 S^4 T^7 - 42 S^5 T^7 - 42 S^6 T^7 + 106 S^7 T^7 - 48 S^8 T^7 + 15 S^4 T^8 - 48 S^5 T^8 + 61 S^6 T^8 - 48 S^7 T^8 + 15 S^8 T^8),$$

$$\text{Knot}[10, 145] \rightarrow -\frac{1}{S^4 T^4} 2 (1 + S - 3 S^2 + S^3 + S^4 + T + S T - S^2 T - S^3 T + S^4 T + S^5 T - 3 T^2 - S T^2 + 7 S^2 T^2 - 10 S^3 T^2 + 7 S^4 T^2 - S^5 T^2 - 3 S^6 T^2 + T^3 - S T^3 - 10 S^2 T^3 + 7 S^3 T^3 + 7 S^4 T^3 - 10 S^5 T^3 - S^6 T^3 + S^7 T^3 + T^4 + S T^4 + 7 S^2 T^4 + 7 S^3 T^4 - 18 S^4 T^4 + 7 S^5 T^4 + 7 S^6 T^4 + S^7 T^4 + S^8 T^4 + S T^5 - S^2 T^5 -$$

$$\begin{aligned}
& 10 S^3 T^5 + 7 S^4 T^5 + 7 S^5 T^5 - 10 S^6 T^5 - S^7 T^5 + S^8 T^5 - 3 S^2 T^6 - S^3 T^6 + 7 S^4 T^6 - 10 S^5 T^6 + 7 S^6 T^6 - \\
& S^7 T^6 - 3 S^8 T^6 + S^3 T^7 + S^4 T^7 - S^5 T^7 - S^6 T^7 + S^7 T^7 + S^8 T^7 + S^4 T^8 + S^5 T^8 - 3 S^6 T^8 + S^7 T^8 + S^8 T^8), \\
& \text{Knot}[10, 146] \rightarrow -\frac{1}{S^4 T^4} (1 - 5 S + 9 S^2 - 5 S^3 + S^4 - 5 T + 18 S T - 18 S^2 T - 18 S^3 T + 18 S^4 T - \\
& 5 S^5 T + 9 T^2 - 18 S T^2 - 18 S^2 T^2 + 92 S^3 T^2 - 18 S^4 T^2 - 18 S^5 T^2 + 9 S^6 T^2 - 5 T^3 - 18 S T^3 + 92 S^2 T^3 - \\
& 108 S^3 T^3 - 108 S^4 T^3 + 92 S^5 T^3 - 18 S^6 T^3 - 5 S^7 T^3 + T^4 + 18 S T^4 - 18 S^2 T^4 - 108 S^3 T^4 + 312 S^4 T^4 - \\
& 108 S^5 T^4 - 18 S^6 T^4 + 18 S^7 T^4 + S^8 T^4 - 5 S T^5 - 18 S^2 T^5 + 92 S^3 T^5 - 108 S^4 T^5 - 108 S^5 T^5 + 92 S^6 T^5 - \\
& 18 S^7 T^5 - 5 S^8 T^5 + 9 S^2 T^6 - 18 S^3 T^6 - 18 S^4 T^6 + 92 S^5 T^6 - 18 S^6 T^6 - 18 S^7 T^6 + 9 S^8 T^6 - 5 S^3 T^7 + \\
& 18 S^4 T^7 - 18 S^5 T^7 - 18 S^6 T^7 + 18 S^7 T^7 - 5 S^8 T^7 + S^4 T^8 - 5 S^5 T^8 + 9 S^6 T^8 - 5 S^7 T^8 + S^8 T^8), \\
& \text{Knot}[10, 147] \rightarrow -\frac{1}{S^4 T^4} (7 - 23 S + 29 S^2 - 23 S^3 + 7 S^4 - 23 T + 52 S T - 20 S^2 T - 20 S^3 T + \\
& 52 S^4 T - 23 S^5 T + 29 T^2 - 20 S T^2 - 94 S^2 T^2 + 128 S^3 T^2 - 94 S^4 T^2 - 20 S^5 T^2 + 29 S^6 T^2 - \\
& 23 T^3 - 20 S T^3 + 128 S^2 T^3 - 58 S^3 T^3 - 58 S^4 T^3 + 128 S^5 T^3 - 20 S^6 T^3 - 23 S^7 T^3 + 7 T^4 + \\
& 52 S T^4 - 94 S^2 T^4 - 58 S^3 T^4 + 132 S^4 T^4 - 58 S^5 T^4 - 94 S^6 T^4 + 52 S^7 T^4 + 7 S^8 T^4 - 23 S T^5 - \\
& 20 S^2 T^5 + 128 S^3 T^5 - 58 S^4 T^5 - 58 S^5 T^5 + 128 S^6 T^5 - 20 S^7 T^5 - 23 S^8 T^5 + 29 S^2 T^6 - \\
& 20 S^3 T^6 - 94 S^4 T^6 + 128 S^5 T^6 - 94 S^6 T^6 - 20 S^7 T^6 + 29 S^8 T^6 - 23 S^3 T^7 + 52 S^4 T^7 - \\
& 20 S^5 T^7 - 20 S^6 T^7 + 52 S^7 T^7 - 23 S^8 T^7 + 7 S^4 T^8 - 23 S^5 T^8 + 29 S^6 T^8 - 23 S^7 T^8 + 7 S^8 T^8), \\
& \text{Knot}[10, 148] \rightarrow -\frac{1}{S^6 T^6} (1 - 3 S + 7 S^2 - 9 S^3 + 7 S^4 - 3 S^5 + S^6 - 3 T + 6 S T - 12 S^2 T + 6 S^3 T + \\
& 6 S^4 T - 12 S^5 T + 6 S^6 T - 3 S^7 T + 7 T^2 - 12 S T^2 + 37 S^2 T^2 - 36 S^3 T^2 + 35 S^4 T^2 - 36 S^5 T^2 + 37 S^6 T^2 - \\
& 12 S^7 T^2 + 7 S^8 T^2 - 9 T^3 + 6 S T^3 - 36 S^2 T^3 + S^4 T^3 + S^5 T^3 - 36 S^7 T^3 + 6 S^8 T^3 - 9 S^9 T^3 + 7 T^4 + \\
& 6 S T^4 + 35 S^2 T^4 + S^3 T^4 + 82 S^4 T^4 - 110 S^5 T^4 + 82 S^6 T^4 + S^7 T^4 + 35 S^8 T^4 + 6 S^9 T^4 + 7 S^{10} T^4 - \\
& 3 T^5 - 12 S T^5 - 36 S^2 T^5 + S^3 T^5 - 110 S^4 T^5 + 46 S^5 T^5 + 46 S^6 T^5 - 110 S^7 T^5 + S^8 T^5 - 36 S^9 T^5 - \\
& 12 S^{10} T^5 - 3 S^{11} T^5 + T^6 + 6 S T^6 + 37 S^2 T^6 + 82 S^4 T^6 + 46 S^5 T^6 - 84 S^6 T^6 + 46 S^7 T^6 + 82 S^8 T^6 + \\
& 37 S^{10} T^6 + 6 S^{11} T^6 + S^{12} T^6 - 3 S T^7 - 12 S^2 T^7 - 36 S^3 T^7 + S^4 T^7 - 110 S^5 T^7 + 46 S^6 T^7 + 46 S^7 T^7 - \\
& 110 S^8 T^7 + S^9 T^7 - 36 S^{10} T^7 - 12 S^{11} T^7 - 3 S^{12} T^7 + 7 S^2 T^8 + 6 S^3 T^8 + 35 S^4 T^8 + S^5 T^8 + 82 S^6 T^8 - \\
& 110 S^7 T^8 + 82 S^8 T^8 + S^9 T^8 + 35 S^{10} T^8 + 6 S^{11} T^8 + 7 S^{12} T^8 - 9 S^3 T^9 + 6 S^4 T^9 - 36 S^5 T^9 + S^7 T^9 + \\
& S^8 T^9 - 36 S^{10} T^9 + 6 S^{11} T^9 - 9 S^{12} T^9 + 7 S^4 T^{10} - 12 S^5 T^{10} + 37 S^6 T^{10} - 36 S^7 T^{10} + 35 S^8 T^{10} - \\
& 36 S^9 T^{10} + 37 S^{10} T^{10} - 12 S^{11} T^{10} + 7 S^{12} T^{10} - 3 S^5 T^{11} + 6 S^6 T^{11} - 12 S^7 T^{11} + 6 S^8 T^{11} + 6 S^9 T^{11} - \\
& 12 S^{10} T^{11} + 6 S^{11} T^{11} - 3 S^{12} T^{11} + S^6 T^{12} - 3 S^7 T^{12} + 7 S^8 T^{12} - 9 S^9 T^{12} + 7 S^{10} T^{12} - 3 S^{11} T^{12} + S^{12} T^{12}), \\
& \text{Knot}[10, 149] \rightarrow \frac{1}{S^6 T^6} (2 - 10 S + 18 S^2 - 22 S^3 + 18 S^4 - 10 S^5 + 2 S^6 - 10 T + 40 S T - 38 S^2 T + \\
& 19 S^3 T + 19 S^4 T - 38 S^5 T + 40 S^6 T - 10 S^7 T + 18 T^2 - 38 S T^2 - 81 S^2 T^2 + 173 S^3 T^2 - \\
& 237 S^4 T^2 + 173 S^5 T^2 - 81 S^6 T^2 - 38 S^7 T^2 + 18 S^8 T^2 - 22 T^3 + 19 S T^3 + 173 S^2 T^3 - \\
& 150 S^3 T^3 + 96 S^4 T^3 + 96 S^5 T^3 - 150 S^6 T^3 + 173 S^7 T^3 + 19 S^8 T^3 - 22 S^9 T^3 + 18 T^4 + \\
& 19 S T^4 - 237 S^2 T^4 + 96 S^3 T^4 - 86 S^4 T^4 - 32 S^5 T^4 - 86 S^6 T^4 + 96 S^7 T^4 - 237 S^8 T^4 + \\
& 19 S^9 T^4 + 18 S^{10} T^4 - 10 T^5 - 38 S T^5 + 173 S^2 T^5 + 96 S^3 T^5 - 32 S^4 T^5 + 94 S^5 T^5 + \\
& 94 S^6 T^5 - 32 S^7 T^5 + 96 S^8 T^5 + 173 S^9 T^5 - 38 S^{10} T^5 - 10 S^{11} T^5 + 2 T^6 + 40 S T^6 - \\
& 81 S^2 T^6 - 150 S^3 T^6 - 86 S^4 T^6 + 94 S^5 T^6 - 264 S^6 T^6 + 94 S^7 T^6 - 86 S^8 T^6 - 150 S^9 T^6 - \\
& 81 S^{10} T^6 + 40 S^{11} T^6 + 2 S^{12} T^6 - 10 S T^7 - 38 S^2 T^7 + 173 S^3 T^7 + 96 S^4 T^7 - 32 S^5 T^7 + \\
& 94 S^6 T^7 + 94 S^7 T^7 - 32 S^8 T^7 + 96 S^9 T^7 + 173 S^{10} T^7 - 38 S^{11} T^7 - 10 S^{12} T^7 + 18 S^2 T^8 + \\
& 19 S^3 T^8 - 237 S^4 T^8 + 96 S^5 T^8 - 86 S^6 T^8 - 32 S^7 T^8 - 86 S^8 T^8 + 96 S^9 T^8 - 237 S^{10} T^8 + \\
& 19 S^{11} T^8 + 18 S^{12} T^8 - 22 S^3 T^9 + 19 S^4 T^9 + 173 S^5 T^9 - 150 S^6 T^9 + 96 S^7 T^9 + 96 S^8 T^9 - \\
& 150 S^9 T^9 + 173 S^{10} T^9 + 19 S^{11} T^9 - 22 S^{12} T^9 + 18 S^4 T^{10} - 38 S^5 T^{10} - 81 S^6 T^{10} + \\
& 173 S^7 T^{10} - 237 S^8 T^{10} + 173 S^9 T^{10} - 81 S^{10} T^{10} - 38 S^{11} T^{10} + 18 S^{12} T^{10} - 10 S^5 T^{11} + \\
& 40 S^6 T^{11} - 38 S^7 T^{11} + 19 S^8 T^{11} + 19 S^9 T^{11} - 38 S^{10} T^{11} + 40 S^{11} T^{11} - 10 S^{12} T^{11} +
\end{aligned}$$

$$\begin{aligned}
& 2 S^6 T^{12} - 10 S^7 T^{12} + 18 S^8 T^{12} - 22 S^9 T^{12} + 18 S^{10} T^{12} - 10 S^{11} T^{12} + 2 S^{12} T^{12} \Big), \\
\text{Knot}[10, 150] & \rightarrow -\frac{1}{S^6 T^6} \Big(2 - 8 S + 12 S^2 - 14 S^3 + 12 S^4 - 8 S^5 + 2 S^6 - 8 T + 24 S T - 16 S^2 T + \\
& 8 S^3 T + 8 S^4 T - 16 S^5 T + 24 S^6 T - 8 S^7 T + 12 T^2 - 16 S T^2 - 42 S^2 T^2 + 59 S^3 T^2 - 78 S^4 T^2 + 59 S^5 T^2 - \\
& 42 S^6 T^2 - 16 S^7 T^2 + 12 S^8 T^2 - 14 T^3 + 8 S T^3 + 59 S^2 T^3 - 24 S^3 T^3 + 22 S^4 T^3 + 22 S^5 T^3 - 24 S^6 T^3 + \\
& 59 S^7 T^3 + 8 S^8 T^3 - 14 S^9 T^3 + 12 T^4 + 8 S T^4 - 78 S^2 T^4 + 22 S^3 T^4 - 37 S^4 T^4 - S^5 T^4 - 37 S^6 T^4 + \\
& 22 S^7 T^4 - 78 S^8 T^4 + 8 S^9 T^4 + 12 S^{10} T^4 - 8 T^5 - 16 S T^5 + 59 S^2 T^5 + 22 S^3 T^5 - S^4 T^5 + 30 S^5 T^5 + \\
& 30 S^6 T^5 - S^7 T^5 + 22 S^8 T^5 + 59 S^9 T^5 - 16 S^{10} T^5 - 8 S^{11} T^5 + 2 T^6 + 24 S T^6 - 42 S^2 T^6 - 24 S^3 T^6 - \\
& 37 S^4 T^6 + 30 S^5 T^6 - 84 S^6 T^6 + 30 S^7 T^6 - 37 S^8 T^6 - 24 S^9 T^6 - 42 S^{10} T^6 + 24 S^{11} T^6 + 2 S^{12} T^6 - \\
& 8 S T^7 - 16 S^2 T^7 + 59 S^3 T^7 + 22 S^4 T^7 - S^5 T^7 + 30 S^6 T^7 + 30 S^7 T^7 - S^8 T^7 + 22 S^9 T^7 + 59 S^{10} T^7 - \\
& 16 S^{11} T^7 - 8 S^{12} T^7 + 12 S^2 T^8 + 8 S^3 T^8 - 78 S^4 T^8 + 22 S^5 T^8 - 37 S^6 T^8 - S^7 T^8 - 37 S^8 T^8 + 22 S^9 T^8 - \\
& 78 S^{10} T^8 + 8 S^{11} T^8 + 12 S^{12} T^8 - 14 S^3 T^9 + 8 S^4 T^9 + 59 S^5 T^9 - 24 S^6 T^9 + 22 S^7 T^9 + 22 S^8 T^9 - 24 S^9 T^9 + \\
& 59 S^{10} T^9 + 8 S^{11} T^9 - 14 S^{12} T^9 + 12 S^4 T^{10} - 16 S^5 T^{10} - 42 S^6 T^{10} + 59 S^7 T^{10} - 78 S^8 T^{10} + 59 S^9 T^{10} - \\
& 42 S^{10} T^{10} - 16 S^{11} T^{10} + 12 S^{12} T^{10} - 8 S^5 T^{11} + 24 S^6 T^{11} - 16 S^7 T^{11} + 8 S^8 T^{11} + 8 S^9 T^{11} - 16 S^{10} T^{11} + \\
& 24 S^{11} T^{11} - 8 S^{12} T^{11} + 2 S^6 T^{12} - 8 S^7 T^{12} + 12 S^8 T^{12} - 14 S^9 T^{12} + 12 S^{10} T^{12} - 8 S^{11} T^{12} + 2 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 151] & \rightarrow \frac{1}{S^6 T^6} \Big(1 - 4 S + 10 S^2 - 13 S^3 + 10 S^4 - 4 S^5 + S^6 - 4 T + 12 S T - 24 S^2 T + \\
& 12 S^3 T + 12 S^4 T - 24 S^5 T + 12 S^6 T - 4 S^7 T + 10 T^2 - 24 S T^2 + 42 S^2 T^2 + 3 S^3 T^2 - 28 S^4 T^2 + \\
& 3 S^5 T^2 + 42 S^6 T^2 - 24 S^7 T^2 + 10 S^8 T^2 - 13 T^3 + 12 S T^3 + 3 S^2 T^3 - 106 S^3 T^3 + 59 S^4 T^3 + \\
& 59 S^5 T^3 - 106 S^6 T^3 + 3 S^7 T^3 + 12 S^8 T^3 - 13 S^9 T^3 + 10 T^4 + 12 S T^4 - 28 S^2 T^4 + 59 S^3 T^4 + \\
& 201 S^4 T^4 - 337 S^5 T^4 + 201 S^6 T^4 + 59 S^7 T^4 - 28 S^8 T^4 + 12 S^9 T^4 + 10 S^{10} T^4 - 4 T^5 - \\
& 24 S T^5 + 3 S^2 T^5 + 59 S^3 T^5 - 337 S^4 T^5 + 180 S^5 T^5 + 180 S^6 T^5 - 337 S^7 T^5 + 59 S^8 T^5 + \\
& 3 S^9 T^5 - 24 S^{10} T^5 - 4 S^{11} T^5 + T^6 + 12 S T^6 + 42 S^2 T^6 - 106 S^3 T^6 + 201 S^4 T^6 + 180 S^5 T^6 - \\
& 384 S^6 T^6 + 180 S^7 T^6 + 201 S^8 T^6 - 106 S^9 T^6 + 42 S^{10} T^6 + 12 S^{11} T^6 + S^{12} T^6 - 4 S T^7 - \\
& 24 S^2 T^7 + 3 S^3 T^7 + 59 S^4 T^7 - 337 S^5 T^7 + 180 S^6 T^7 + 180 S^7 T^7 - 337 S^8 T^7 + 59 S^9 T^7 + \\
& 3 S^{10} T^7 - 24 S^{11} T^7 - 4 S^{12} T^7 + 10 S^2 T^8 + 12 S^3 T^8 - 28 S^4 T^8 + 59 S^5 T^8 + 201 S^6 T^8 - \\
& 337 S^7 T^8 + 201 S^8 T^8 + 59 S^9 T^8 - 28 S^{10} T^8 + 12 S^{11} T^8 + 10 S^{12} T^8 - 13 S^3 T^9 + 12 S^4 T^9 + \\
& 3 S^5 T^9 - 106 S^6 T^9 + 59 S^7 T^9 + 59 S^8 T^9 - 106 S^9 T^9 + 3 S^{10} T^9 + 12 S^{11} T^9 - 13 S^{12} T^9 + \\
& 10 S^4 T^{10} - 24 S^5 T^{10} + 42 S^6 T^{10} + 3 S^7 T^{10} - 28 S^8 T^{10} + 3 S^9 T^{10} + 42 S^{10} T^{10} - 24 S^{11} T^{10} + \\
& 10 S^{12} T^{10} - 4 S^5 T^{11} + 12 S^6 T^{11} - 24 S^7 T^{11} + 12 S^8 T^{11} + 12 S^9 T^{11} - 24 S^{10} T^{11} + 12 S^{11} T^{11} - \\
& 4 S^{12} T^{11} + S^6 T^{12} - 4 S^7 T^{12} + 10 S^8 T^{12} - 13 S^9 T^{12} + 10 S^{10} T^{12} - 4 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 152] & \rightarrow -\frac{1}{S^8 T^8} \Big(4 - 4 S - 4 S^2 + 16 S^3 - 20 S^4 + 16 S^5 - 4 S^6 - 4 S^7 + 4 S^8 - 4 T + 8 S^2 T - \\
& 12 S^3 T + 4 S^4 T + 4 S^5 T - 12 S^6 T + 8 S^7 T - 4 S^9 T - 4 T^2 + 8 S T^2 - 3 S^2 T^2 - 16 S^3 T^2 + 36 S^4 T^2 - \\
& 45 S^5 T^2 + 36 S^6 T^2 - 16 S^7 T^2 - 3 S^8 T^2 + 8 S^9 T^2 - 4 S^{10} T^2 + 16 T^3 - 12 S T^3 - 16 S^2 T^3 + 60 S^3 T^3 - \\
& 64 S^4 T^3 + 32 S^5 T^3 + 32 S^6 T^3 - 64 S^7 T^3 + 60 S^8 T^3 - 16 S^9 T^3 - 12 S^{10} T^3 + 16 S^{11} T^3 - 20 T^4 + 4 S T^4 + \\
& 36 S^2 T^4 - 64 S^3 T^4 + 18 S^4 T^4 + 40 S^5 T^4 - 78 S^6 T^4 + 40 S^7 T^4 + 18 S^8 T^4 - 64 S^9 T^4 + 36 S^{10} T^4 + \\
& 4 S^{11} T^4 - 20 S^{12} T^4 + 16 T^5 + 4 S T^5 - 45 S^2 T^5 + 32 S^3 T^5 + 40 S^4 T^5 - 70 S^5 T^5 + 33 S^6 T^5 + 33 S^7 T^5 - \\
& 70 S^8 T^5 + 40 S^9 T^5 + 32 S^{10} T^5 - 45 S^{11} T^5 + 4 S^{12} T^5 + 16 S^{13} T^5 - 4 T^6 - 12 S T^6 + 36 S^2 T^6 + \\
& 32 S^3 T^6 - 78 S^4 T^6 + 33 S^5 T^6 + 68 S^6 T^6 - 88 S^7 T^6 + 68 S^8 T^6 + 33 S^9 T^6 - 78 S^{10} T^6 + 32 S^{11} T^6 + \\
& 36 S^{12} T^6 - 12 S^{13} T^6 - 4 S^{14} T^6 - 4 T^7 + 8 S T^7 - 16 S^2 T^7 - 64 S^3 T^7 + 40 S^4 T^7 + 33 S^5 T^7 - 88 S^6 T^7 + \\
& 14 S^7 T^7 + 14 S^8 T^7 - 88 S^9 T^7 + 33 S^{10} T^7 + 40 S^{11} T^7 - 64 S^{12} T^7 - 16 S^{13} T^7 + 8 S^{14} T^7 - 4 S^{15} T^7 + \\
& 4 T^8 - 3 S^2 T^8 + 60 S^3 T^8 + 18 S^4 T^8 - 70 S^5 T^8 + 68 S^6 T^8 + 14 S^7 T^8 + 12 S^8 T^8 + 14 S^9 T^8 + 68 S^{10} T^8 - \\
& 70 S^{11} T^8 + 18 S^{12} T^8 + 60 S^{13} T^8 - 3 S^{14} T^8 + 4 S^{16} T^8 - 4 S T^9 + 8 S^2 T^9 - 16 S^3 T^9 - 64 S^4 T^9 + \\
& 40 S^5 T^9 + 33 S^6 T^9 - 88 S^7 T^9 + 14 S^8 T^9 + 14 S^9 T^9 - 88 S^{10} T^9 + 33 S^{11} T^9 + 40 S^{12} T^9 - 64 S^{13} T^9 - \\
& 16 S^{14} T^9 + 8 S^{15} T^9 - 4 S^{16} T^9 - 4 S^2 T^{10} - 12 S^3 T^{10} + 36 S^4 T^{10} + 32 S^5 T^{10} - 78 S^6 T^{10} + 33 S^7 T^{10} +
\end{aligned}$$

$$\begin{aligned}
& 68 S^8 T^{10} - 88 S^9 T^{10} + 68 S^{10} T^{10} + 33 S^{11} T^{10} - 78 S^{12} T^{10} + 32 S^{13} T^{10} + 36 S^{14} T^{10} - 12 S^{15} T^{10} - \\
& 4 S^{16} T^{10} + 16 S^3 T^{11} + 4 S^4 T^{11} - 45 S^5 T^{11} + 32 S^6 T^{11} + 40 S^7 T^{11} - 70 S^8 T^{11} + 33 S^9 T^{11} + 33 S^{10} T^{11} - \\
& 70 S^{11} T^{11} + 40 S^{12} T^{11} + 32 S^{13} T^{11} - 45 S^{14} T^{11} + 4 S^{15} T^{11} + 16 S^{16} T^{11} - 20 S^4 T^{12} + 4 S^5 T^{12} + \\
& 36 S^6 T^{12} - 64 S^7 T^{12} + 18 S^8 T^{12} + 40 S^9 T^{12} - 78 S^{10} T^{12} + 40 S^{11} T^{12} + 18 S^{12} T^{12} - 64 S^{13} T^{12} + \\
& 36 S^{14} T^{12} + 4 S^{15} T^{12} - 20 S^{16} T^{12} + 16 S^5 T^{13} - 12 S^6 T^{13} - 16 S^7 T^{13} + 60 S^8 T^{13} - 64 S^9 T^{13} + \\
& 32 S^{10} T^{13} + 32 S^{11} T^{13} - 64 S^{12} T^{13} + 60 S^{13} T^{13} - 16 S^{14} T^{13} - 12 S^{15} T^{13} + 16 S^{16} T^{13} - 4 S^6 T^{14} + \\
& 8 S^7 T^{14} - 3 S^8 T^{14} - 16 S^9 T^{14} + 36 S^{10} T^{14} - 45 S^{11} T^{14} + 36 S^{12} T^{14} - 16 S^{13} T^{14} - 3 S^{14} T^{14} + 8 S^{15} T^{14} - \\
& 4 S^{16} T^{14} - 4 S^7 T^{15} + 8 S^9 T^{15} - 12 S^{10} T^{15} + 4 S^{11} T^{15} + 4 S^{12} T^{15} - 12 S^{13} T^{15} + 8 S^{14} T^{15} - 4 S^{16} T^{15} + \\
& 4 S^8 T^{16} - 4 S^9 T^{16} - 4 S^{10} T^{16} + 16 S^{11} T^{16} - 20 S^{12} T^{16} + 16 S^{13} T^{16} - 4 S^{14} T^{16} - 4 S^{15} T^{16} + 4 S^{16} T^{16} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 153] \rightarrow & -\frac{1}{S^6 T^6} \Big(1 - S - S^2 + 3 S^3 - S^4 - S^5 + S^6 - T - 2 S T + 5 S^2 T - 4 S^3 T - 4 S^4 T + 5 S^5 T - \\
& 2 S^6 T - S^7 T - T^2 + 5 S T^2 - 2 S^2 T^2 - 4 S^3 T^2 + 10 S^4 T^2 - 4 S^5 T^2 - 2 S^6 T^2 + 5 S^7 T^2 - S^8 T^2 + 3 T^3 - \\
& 4 S T^3 - 4 S^2 T^3 + 10 S^3 T^3 - 6 S^4 T^3 - 6 S^5 T^3 + 10 S^6 T^3 - 4 S^7 T^3 - 4 S^8 T^3 + 3 S^9 T^3 - T^4 - 4 S T^4 + \\
& 10 S^2 T^4 - 6 S^3 T^4 - 10 S^4 T^4 + 18 S^5 T^4 - 10 S^6 T^4 - 6 S^7 T^4 + 10 S^8 T^4 - 4 S^9 T^4 - S^{10} T^4 - T^5 + 5 S T^5 - \\
& 4 S^2 T^5 - 6 S^3 T^5 + 18 S^4 T^5 - 10 S^5 T^5 - 10 S^6 T^5 + 18 S^7 T^5 - 6 S^8 T^5 - 4 S^9 T^5 + 5 S^{10} T^5 - S^{11} T^5 + \\
& T^6 - 2 S T^6 - 2 S^2 T^6 + 10 S^3 T^6 - 10 S^4 T^6 - 10 S^5 T^6 + 24 S^6 T^6 - 10 S^7 T^6 - 10 S^8 T^6 + 10 S^9 T^6 - \\
& 2 S^{10} T^6 - 2 S^{11} T^6 + S^{12} T^6 - S T^7 + 5 S^2 T^7 - 4 S^3 T^7 - 6 S^4 T^7 + 18 S^5 T^7 - 10 S^6 T^7 - 10 S^7 T^7 + \\
& 18 S^8 T^7 - 6 S^9 T^7 - 4 S^{10} T^7 + 5 S^{11} T^7 - S^{12} T^7 - S^2 T^8 - 4 S^3 T^8 + 10 S^4 T^8 - 6 S^5 T^8 - 10 S^6 T^8 + \\
& 18 S^7 T^8 - 10 S^8 T^8 - 6 S^9 T^8 + 10 S^{10} T^8 - 4 S^{11} T^8 - S^{12} T^8 + 3 S^3 T^9 - 4 S^4 T^9 - 4 S^5 T^9 + 10 S^6 T^9 - \\
& 6 S^7 T^9 - 6 S^8 T^9 + 10 S^9 T^9 - 4 S^{10} T^9 - 4 S^{11} T^9 + 3 S^{12} T^9 - S^4 T^{10} + 5 S^5 T^{10} - 2 S^6 T^{10} - 4 S^7 T^{10} + \\
& 10 S^8 T^{10} - 4 S^9 T^{10} - 2 S^{10} T^{10} + 5 S^{11} T^{10} - S^{12} T^{10} - S^5 T^{11} - 2 S^6 T^{11} + 5 S^7 T^{11} - 4 S^8 T^{11} - 4 S^9 T^{11} + \\
& 5 S^{10} T^{11} - 2 S^{11} T^{11} - S^{12} T^{11} + S^6 T^{12} - S^7 T^{12} - S^8 T^{12} + 3 S^9 T^{12} - S^{10} T^{12} - S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 154] \rightarrow & \frac{1}{S^6 T^6} \Big(3 - 12 S^2 + 21 S^3 - 12 S^4 + 3 S^6 - 12 T^2 + 34 S^2 T^2 - 72 S^3 T^2 + \\
& 78 S^4 T^2 - 72 S^5 T^2 + 34 S^6 T^2 - 12 S^8 T^2 + 21 T^3 - 72 S^2 T^3 + 126 S^3 T^3 - 59 S^4 T^3 - \\
& 59 S^5 T^3 + 126 S^6 T^3 - 72 S^7 T^3 + 21 S^9 T^3 - 12 T^4 + 78 S^2 T^4 - 59 S^3 T^4 - 108 S^4 T^4 + \\
& 236 S^5 T^4 - 108 S^6 T^4 - 59 S^7 T^4 + 78 S^8 T^4 - 12 S^{10} T^4 - 72 S^2 T^5 - 59 S^3 T^5 + 236 S^4 T^5 - \\
& 186 S^5 T^5 - 186 S^6 T^5 + 236 S^7 T^5 - 59 S^8 T^5 - 72 S^9 T^5 + 3 T^6 + 34 S^2 T^6 + 126 S^3 T^6 - \\
& 108 S^4 T^6 - 186 S^5 T^6 + 492 S^6 T^6 - 186 S^7 T^6 - 108 S^8 T^6 + 126 S^9 T^6 + 34 S^{10} T^6 + \\
& 3 S^{12} T^6 - 72 S^3 T^7 - 59 S^4 T^7 + 236 S^5 T^7 - 186 S^6 T^7 - 186 S^7 T^7 + 236 S^8 T^7 - 59 S^9 T^7 - \\
& 72 S^{10} T^7 - 12 S^2 T^8 + 78 S^4 T^8 - 59 S^5 T^8 - 108 S^6 T^8 + 236 S^7 T^8 - 108 S^8 T^8 - 59 S^9 T^8 + \\
& 78 S^{10} T^8 - 12 S^{12} T^8 + 21 S^3 T^9 - 72 S^5 T^9 + 126 S^6 T^9 - 59 S^7 T^9 - 59 S^8 T^9 + 126 S^9 T^9 - \\
& 72 S^{10} T^9 + 21 S^{12} T^9 - 12 S^4 T^{10} + 34 S^6 T^{10} - 72 S^7 T^{10} + 78 S^8 T^{10} - 72 S^9 T^{10} + \\
& 34 S^{10} T^{10} - 12 S^{12} T^{10} + 3 S^6 T^{12} - 12 S^8 T^{12} + 21 S^9 T^{12} - 12 S^{10} T^{12} + 3 S^{12} T^{12} \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 155] \rightarrow & -\frac{1}{S^4 T^4} 2 \Big(1 - 4 S + 5 S^2 - 4 S^3 + S^4 - 4 T + 11 S T - 3 S^2 T - 3 S^3 T + 11 S^4 T - \\
& 4 S^5 T + 5 T^2 - 3 S T^2 - 26 S^2 T^2 + 24 S^3 T^2 - 26 S^4 T^2 - 3 S^5 T^2 + 5 S^6 T^2 - 4 T^3 - 3 S T^3 + 24 S^2 T^3 + \\
& 4 S^3 T^3 + 4 S^4 T^3 + 24 S^5 T^3 - 3 S^6 T^3 - 4 S^7 T^3 + T^4 + 11 S T^4 - 26 S^2 T^4 + 4 S^3 T^4 - 30 S^4 T^4 + \\
& 4 S^5 T^4 - 26 S^6 T^4 + 11 S^7 T^4 + S^8 T^4 - 4 S T^5 - 3 S^2 T^5 + 24 S^3 T^5 + 4 S^4 T^5 + 4 S^5 T^5 + 24 S^6 T^5 - \\
& 3 S^7 T^5 - 4 S^8 T^5 + 5 S^2 T^6 - 3 S^3 T^6 - 26 S^4 T^6 + 24 S^5 T^6 - 26 S^6 T^6 - 3 S^7 T^6 + 5 S^8 T^6 - 4 S^3 T^7 + \\
& 11 S^4 T^7 - 3 S^5 T^7 - 3 S^6 T^7 + 11 S^7 T^7 - 4 S^8 T^7 + S^4 T^8 - 4 S^5 T^8 + 5 S^6 T^8 - 4 S^7 T^8 + S^8 T^8 \Big),
\end{aligned}$$

$$\begin{aligned}
\text{Knot}[10, 156] \rightarrow & -\frac{1}{S^6 T^6} \Big(1 - 4 S + 8 S^2 - 9 S^3 + 8 S^4 - 4 S^5 + S^6 - 4 T + 12 S T - 16 S^2 T + 4 S^3 T + \\
& 4 S^4 T - 16 S^5 T + 12 S^6 T - 4 S^7 T + 8 T^2 - 16 S T^2 + 8 S^2 T^2 + 28 S^3 T^2 - 24 S^4 T^2 + 28 S^5 T^2 + 8 S^6 T^2 - \\
& 16 S^7 T^2 + 8 S^8 T^2 - 9 T^3 + 4 S T^3 + 28 S^2 T^3 - 72 S^3 T^3 + 12 S^4 T^3 + 12 S^5 T^3 - 72 S^6 T^3 + 28 S^7 T^3 + \\
& 4 S^8 T^3 - 9 S^9 T^3 + 8 T^4 + 4 S T^4 - 24 S^2 T^4 + 12 S^3 T^4 + 122 S^4 T^4 - 132 S^5 T^4 + 122 S^6 T^4 + 12 S^7 T^4 -
\end{aligned}$$

$$\begin{aligned}
& 24 S^8 T^4 + 4 S^9 T^4 + 8 S^{10} T^4 - 4 T^5 - 16 S T^5 + 28 S^2 T^5 + 12 S^3 T^5 - 132 S^4 T^5 + 48 S^5 T^5 + 48 S^6 T^5 - \\
& 132 S^7 T^5 + 12 S^8 T^5 + 28 S^9 T^5 - 16 S^{10} T^5 - 4 S^{11} T^5 + T^6 + 12 S T^6 + 8 S^2 T^6 - 72 S^3 T^6 + 122 S^4 T^6 + \\
& 48 S^5 T^6 - 108 S^6 T^6 + 48 S^7 T^6 + 122 S^8 T^6 - 72 S^9 T^6 + 8 S^{10} T^6 + 12 S^{11} T^6 + S^{12} T^6 - 4 S T^7 - 16 S^2 T^7 + \\
& 28 S^3 T^7 + 12 S^4 T^7 - 132 S^5 T^7 + 48 S^6 T^7 + 48 S^7 T^7 - 132 S^8 T^7 + 12 S^9 T^7 + 28 S^{10} T^7 - 16 S^{11} T^7 - \\
& 4 S^{12} T^7 + 8 S^2 T^8 + 4 S^3 T^8 - 24 S^4 T^8 + 12 S^5 T^8 + 122 S^6 T^8 - 132 S^7 T^8 + 122 S^8 T^8 + 12 S^9 T^8 - \\
& 24 S^{10} T^8 + 4 S^{11} T^8 + 8 S^{12} T^8 - 9 S^3 T^9 + 4 S^4 T^9 + 28 S^5 T^9 - 72 S^6 T^9 + 12 S^7 T^9 + 12 S^8 T^9 - 72 S^9 T^9 + \\
& 28 S^{10} T^9 + 4 S^{11} T^9 - 9 S^{12} T^9 + 8 S^4 T^{10} - 16 S^5 T^{10} + 8 S^6 T^{10} + 28 S^7 T^{10} - 24 S^8 T^{10} + 28 S^9 T^{10} + \\
& 8 S^{10} T^{10} - 16 S^{11} T^{10} + 8 S^{12} T^{10} - 4 S^5 T^{11} + 12 S^6 T^{11} - 16 S^7 T^{11} + 4 S^8 T^{11} + 4 S^9 T^{11} - 16 S^{10} T^{11} + \\
& 12 S^{11} T^{11} - 4 S^{12} T^{11} + S^6 T^{12} - 4 S^7 T^{12} + 8 S^8 T^{12} - 9 S^9 T^{12} + 8 S^{10} T^{12} - 4 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[10, 157] \rightarrow -\frac{1}{S^6 T^6} \left(2 - 12 S + 22 S^2 - 26 S^3 + 22 S^4 - 12 S^5 + 2 S^6 - 12 T + 60 S T - 56 S^2 T + \right.$$

$$\begin{aligned}
& 21 S^3 T + 21 S^4 T - 56 S^5 T + 60 S^6 T - 12 S^7 T + 22 T^2 - 56 S T^2 - 188 S^2 T^2 + 389 S^3 T^2 - 458 S^4 T^2 + \\
& 389 S^5 T^2 - 188 S^6 T^2 - 56 S^7 T^2 + 22 S^8 T^2 - 26 T^3 + 21 S T^3 + 389 S^2 T^3 - 350 S^3 T^3 + 129 S^4 T^3 + \\
& 129 S^5 T^3 - 350 S^6 T^3 + 389 S^7 T^3 + 21 S^8 T^3 - 26 S^9 T^3 + 22 T^4 + 21 S T^4 - 458 S^2 T^4 + 129 S^3 T^4 + \\
& 8 S^4 T^4 - 36 S^5 T^4 + 8 S^6 T^4 + 129 S^7 T^4 - 458 S^8 T^4 + 21 S^9 T^4 + 22 S^{10} T^4 - 12 T^5 - 56 S T^5 + 389 S^2 T^5 + \\
& 129 S^3 T^5 - 36 S^4 T^5 - 2 S^5 T^5 - 2 S^6 T^5 - 36 S^7 T^5 + 129 S^8 T^5 + 389 S^9 T^5 - 56 S^{10} T^5 - 12 S^{11} T^5 + \\
& 2 T^6 + 60 S T^6 - 188 S^2 T^6 - 350 S^3 T^6 + 8 S^4 T^6 - 2 S^5 T^6 + 24 S^6 T^6 - 2 S^7 T^6 + 8 S^8 T^6 - 350 S^9 T^6 - \\
& 188 S^{10} T^6 + 60 S^{11} T^6 + 2 S^{12} T^6 - 12 S T^7 - 56 S^2 T^7 + 389 S^3 T^7 + 129 S^4 T^7 - 36 S^5 T^7 - 2 S^6 T^7 - \\
& 2 S^7 T^7 - 36 S^8 T^7 + 129 S^9 T^7 + 389 S^{10} T^7 - 56 S^{11} T^7 - 12 S^{12} T^7 + 22 S^2 T^8 + 21 S^3 T^8 - 458 S^4 T^8 + \\
& 129 S^5 T^8 + 8 S^6 T^8 - 36 S^7 T^8 + 8 S^8 T^8 + 129 S^9 T^8 - 458 S^{10} T^8 + 21 S^{11} T^8 + 22 S^{12} T^8 - 26 S^3 T^9 + \\
& 21 S^4 T^9 + 389 S^5 T^9 - 350 S^6 T^9 + 129 S^7 T^9 + 129 S^8 T^9 - 350 S^9 T^9 + 389 S^{10} T^9 + 21 S^{11} T^9 - 26 S^{12} T^9 + \\
& 22 S^4 T^{10} - 56 S^5 T^{10} - 188 S^6 T^{10} + 389 S^7 T^{10} - 458 S^8 T^{10} + 389 S^9 T^{10} - 188 S^{10} T^{10} - 56 S^{11} T^{10} + \\
& 22 S^{12} T^{10} - 12 S^5 T^{11} + 60 S^6 T^{11} - 56 S^7 T^{11} + 21 S^8 T^{11} + 21 S^9 T^{11} - 56 S^{10} T^{11} + 60 S^{11} T^{11} - \\
& 12 S^{12} T^{11} + 2 S^6 T^{12} - 12 S^7 T^{12} + 22 S^8 T^{12} - 26 S^9 T^{12} + 22 S^{10} T^{12} - 12 S^{11} T^{12} + 2 S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[10, 158] \rightarrow \frac{1}{S^4 T^4} \left(2 - 4 S + 4 S^2 - 4 S^3 + 2 S^4 - 4 T + 2 S T + S^2 T + S^3 T + 2 S^4 T - 4 S^5 T + \right.$$

$$\begin{aligned}
& 4 T^2 + S T^2 - S^2 T^2 + 3 S^3 T^2 - S^4 T^2 + S^5 T^2 + 4 S^6 T^2 - 4 T^3 + S T^3 + 3 S^2 T^3 - 14 S^3 T^3 - \\
& 14 S^4 T^3 + 3 S^5 T^3 + S^6 T^3 - 4 S^7 T^3 + 2 T^4 + 2 S T^4 - S^2 T^4 - 14 S^3 T^4 + 60 S^4 T^4 - 14 S^5 T^4 - \\
& S^6 T^4 + 2 S^7 T^4 + 2 S^8 T^4 - 4 S T^5 + S^2 T^5 + 3 S^3 T^5 - 14 S^4 T^5 - 14 S^5 T^5 + 3 S^6 T^5 + S^7 T^5 - \\
& 4 S^8 T^5 + 4 S^2 T^6 + S^3 T^6 - S^4 T^6 + 3 S^5 T^6 - S^6 T^6 + S^7 T^6 + 4 S^8 T^6 - 4 S^3 T^7 + 2 S^4 T^7 + \\
& S^5 T^7 + S^6 T^7 + 2 S^7 T^7 - 4 S^8 T^7 + 2 S^4 T^8 - 4 S^5 T^8 + 4 S^6 T^8 - 4 S^7 T^8 + 2 S^8 T^8 \Big),
\end{aligned}$$

$$\text{Knot}[10, 159] \rightarrow -\frac{1}{S^6 T^6} \left(1 - 4 S + 9 S^2 - 11 S^3 + 9 S^4 - 4 S^5 + S^6 - 4 T + 12 S T - 20 S^2 T + 8 S^3 T + \right.$$

$$\begin{aligned}
& 8 S^4 T - 20 S^5 T + 12 S^6 T - 4 S^7 T + 9 T^2 - 20 S T^2 + 35 S^2 T^2 - 11 S^3 T^2 + 13 S^4 T^2 - 11 S^5 T^2 + \\
& 35 S^6 T^2 - 20 S^7 T^2 + 9 S^8 T^2 - 11 T^3 + 8 S T^3 - 11 S^2 T^3 - 46 S^3 T^3 + S^4 T^3 + S^5 T^3 - 46 S^6 T^3 - \\
& 11 S^7 T^3 + 8 S^8 T^3 - 11 S^9 T^3 + 9 T^4 + 8 S T^4 + 13 S^2 T^4 + S^3 T^4 + 170 S^4 T^4 - 158 S^5 T^4 + 170 S^6 T^4 + \\
& S^7 T^4 + 13 S^8 T^4 + 8 S^9 T^4 + 9 S^{10} T^4 - 4 T^5 - 20 S T^5 - 11 S^2 T^5 + S^3 T^5 - 158 S^4 T^5 + 8 S^5 T^5 + \\
& 8 S^6 T^5 - 158 S^7 T^5 + S^8 T^5 - 11 S^9 T^5 - 20 S^{10} T^5 - 4 S^{11} T^5 + T^6 + 12 S T^6 + 35 S^2 T^6 - 46 S^3 T^6 + \\
& 170 S^4 T^6 + 8 S^5 T^6 + 60 S^6 T^6 + 8 S^7 T^6 + 170 S^8 T^6 - 46 S^9 T^6 + 35 S^{10} T^6 + 12 S^{11} T^6 + S^{12} T^6 - \\
& 4 S T^7 - 20 S^2 T^7 - 11 S^3 T^7 + S^4 T^7 - 158 S^5 T^7 + 8 S^6 T^7 + 8 S^7 T^7 - 158 S^8 T^7 + S^9 T^7 - 11 S^{10} T^7 - \\
& 20 S^{11} T^7 - 4 S^{12} T^7 + 9 S^2 T^8 + 8 S^3 T^8 + 13 S^4 T^8 + S^5 T^8 + 170 S^6 T^8 - 158 S^7 T^8 + 170 S^8 T^8 + S^9 T^8 + \\
& 13 S^{10} T^8 + 8 S^{11} T^8 + 9 S^{12} T^8 - 11 S^3 T^9 + 8 S^4 T^9 - 11 S^5 T^9 - 46 S^6 T^9 + S^7 T^9 + S^8 T^9 - 46 S^9 T^9 - \\
& 11 S^{10} T^9 + 8 S^{11} T^9 - 11 S^{12} T^9 + 9 S^4 T^{10} - 20 S^5 T^{10} + 35 S^6 T^{10} - 11 S^7 T^{10} + 13 S^8 T^{10} - 11 S^9 T^{10} + \\
& 35 S^{10} T^{10} - 20 S^{11} T^{10} + 9 S^{12} T^{10} - 4 S^5 T^{11} + 12 S^6 T^{11} - 20 S^7 T^{11} + 8 S^8 T^{11} + 8 S^9 T^{11} - 20 S^{10} T^{11} + \\
& 12 S^{11} T^{11} - 4 S^{12} T^{11} + S^6 T^{12} - 4 S^7 T^{12} + 9 S^8 T^{12} - 11 S^9 T^{12} + 9 S^{10} T^{12} - 4 S^{11} T^{12} + S^{12} T^{12} \Big),
\end{aligned}$$

$$\text{Knot}[10, 160] \rightarrow -\frac{1}{S^6 T^6} \left(2 - 8S + 8S^2 - 6S^3 + 8S^4 - 8S^5 + 2S^6 - 8T + 24ST - 8S^3T - 8S^4T + \right. \\
24S^6T - 8S^7T + 8T^2 - 84S^2T^2 + 66S^3T^2 - 26S^4T^2 + 66S^5T^2 - 84S^6T^2 + 8S^8T^2 - 6T^3 - \\
8ST^3 + 66S^2T^3 + 14S^3T^3 - 33S^4T^3 - 33S^5T^3 + 14S^6T^3 + 66S^7T^3 - 8S^8T^3 - 6S^9T^3 + 8T^4 - \\
8ST^4 - 26S^2T^4 - 33S^3T^4 + 26S^4T^4 + 2S^5T^4 + 26S^6T^4 - 33S^7T^4 - 26S^8T^4 - 8S^9T^4 + 8S^{10}T^4 - \\
8T^5 + 66S^2T^5 - 33S^3T^5 + 2S^4T^5 + 2S^5T^5 + 2S^6T^5 + 2S^7T^5 - 33S^8T^5 + 66S^9T^5 - 8S^{11}T^5 + \\
2T^6 + 24ST^6 - 84S^2T^6 + 14S^3T^6 + 26S^4T^6 + 2S^5T^6 - 24S^6T^6 + 2S^7T^6 + 26S^8T^6 + 14S^9T^6 - \\
84S^{10}T^6 + 24S^{11}T^6 + 2S^{12}T^6 - 8ST^7 + 66S^3T^7 - 33S^4T^7 + 2S^5T^7 + 2S^6T^7 + 2S^7T^7 + \\
2S^8T^7 - 33S^9T^7 + 66S^{10}T^7 - 8S^{12}T^7 + 8S^2T^8 - 8S^3T^8 - 26S^4T^8 - 33S^5T^8 + 26S^6T^8 + \\
2S^7T^8 + 26S^8T^8 - 33S^9T^8 - 26S^{10}T^8 - 8S^{11}T^8 + 8S^{12}T^8 - 6S^3T^9 - 8S^4T^9 + 66S^5T^9 + \\
14S^6T^9 - 33S^7T^9 - 33S^8T^9 + 14S^9T^9 + 66S^{10}T^9 - 8S^{11}T^9 - 6S^{12}T^9 + 8S^4T^{10} - 84S^6T^{10} + \\
66S^7T^{10} - 26S^8T^{10} + 66S^9T^{10} - 84S^{10}T^{10} + 8S^{12}T^{10} - 8S^5T^{11} + 24S^6T^{11} - 8S^8T^{11} - 8S^9T^{11} + \\
24S^{11}T^{11} - 8S^{12}T^{11} + 2S^6T^{12} - 8S^7T^{12} + 8S^8T^{12} - 6S^9T^{12} + 8S^{10}T^{12} - 8S^{11}T^{12} + 2S^{12}T^{12} \Big),$$

$$\text{Knot}[10, 161] \rightarrow -\frac{1}{S^6 T^6} \left(3 - 6S^2 + 9S^3 - 6S^4 + 3S^6 - S^2T + S^3T + S^4T - S^5T - 6T^2 - ST^2 + \right. \\
8S^2T^2 - 15S^3T^2 + 16S^4T^2 - 15S^5T^2 + 8S^6T^2 - S^7T^2 - 6S^8T^2 + 9T^3 + ST^3 - 15S^2T^3 + \\
22S^3T^3 - 9S^4T^3 - 9S^5T^3 + 22S^6T^3 - 15S^7T^3 + S^8T^3 + 9S^9T^3 - 6T^4 + ST^4 + 16S^2T^4 - \\
9S^3T^4 - 7S^4T^4 + 13S^5T^4 - 7S^6T^4 - 9S^7T^4 + 16S^8T^4 + S^9T^4 - 6S^{10}T^4 - ST^5 - 15S^2T^5 - \\
9S^3T^5 + 13S^4T^5 - 6S^5T^5 - 6S^6T^5 + 13S^7T^5 - 9S^8T^5 - 15S^9T^5 - S^{10}T^5 + 3T^6 + 8S^2T^6 + \\
22S^3T^6 - 7S^4T^6 - 6S^5T^6 + 12S^6T^6 - 6S^7T^6 - 7S^8T^6 + 22S^9T^6 + 8S^{10}T^6 + 3S^{12}T^6 - \\
S^2T^7 - 15S^3T^7 - 9S^4T^7 + 13S^5T^7 - 6S^6T^7 - 6S^7T^7 + 13S^8T^7 - 9S^9T^7 - 15S^{10}T^7 - S^{11}T^7 - \\
6S^2T^8 + S^3T^8 + 16S^4T^8 - 9S^5T^8 - 7S^6T^8 + 13S^7T^8 - 7S^8T^8 - 9S^9T^8 + 16S^{10}T^8 + S^{11}T^8 - \\
6S^{12}T^8 + 9S^3T^9 + S^4T^9 - 15S^5T^9 + 22S^6T^9 - 9S^7T^9 - 9S^8T^9 + 22S^9T^9 - 15S^{10}T^9 + S^{11}T^9 + \\
9S^{12}T^9 - 6S^4T^{10} - S^5T^{10} + 8S^6T^{10} - 15S^7T^{10} + 16S^8T^{10} - 15S^9T^{10} + 8S^{10}T^{10} - S^{11}T^{10} - \\
6S^{12}T^{10} - S^7T^{11} + S^8T^{11} + S^9T^{11} - S^{10}T^{11} + 3S^6T^{12} - 6S^8T^{12} + 9S^9T^{12} - 6S^{10}T^{12} + 3S^{12}T^{12} \Big),$$

$$\text{Knot}[10, 162] \rightarrow \frac{1}{S^4 T^4} \left(30 - 87S + 104S^2 - 87S^3 + 30S^4 - 87T + 164ST - 48S^2T - 48S^3T + \right. \\
164S^4T - 87S^5T + 104T^2 - 48ST^2 - 280S^2T^2 + 304S^3T^2 - 280S^4T^2 - 48S^5T^2 + 104S^6T^2 - \\
87T^3 - 48ST^3 + 304S^2T^3 - 58S^3T^3 - 58S^4T^3 + 304S^5T^3 - 48S^6T^3 - 87S^7T^3 + 30T^4 + \\
164ST^4 - 280S^2T^4 - 58S^3T^4 + 36S^4T^4 - 58S^5T^4 - 280S^6T^4 + 164S^7T^4 + 30S^8T^4 - \\
87ST^5 - 48S^2T^5 + 304S^3T^5 - 58S^4T^5 - 58S^5T^5 + 304S^6T^5 - 48S^7T^5 - 87S^8T^5 + 104S^2T^6 - \\
48S^3T^6 - 280S^4T^6 + 304S^5T^6 - 280S^6T^6 - 48S^7T^6 + 104S^8T^6 - 87S^3T^7 + 164S^4T^7 - \\
48S^5T^7 - 48S^6T^7 + 164S^7T^7 - 87S^8T^7 + 30S^4T^8 - 87S^5T^8 + 104S^6T^8 - 87S^7T^8 + 30S^8T^8 \Big),$$

$$\text{Knot}[10, 163] \rightarrow \frac{1}{S^6 T^6} \left(1 - 5S + 12S^2 - 15S^3 + 12S^4 - 5S^5 + S^6 - 5T + 20ST - 35S^2T + \right. \\
15S^3T + 15S^4T - 35S^5T + 20S^6T - 5S^7T + 12T^2 - 35ST^2 + 27S^2T^2 + 74S^3T^2 - \\
109S^4T^2 + 74S^5T^2 + 27S^6T^2 - 35S^7T^2 + 12S^8T^2 - 15T^3 + 15ST^3 + 74S^2T^3 - 238S^3T^3 + \\
99S^4T^3 + 99S^5T^3 - 238S^6T^3 + 74S^7T^3 + 15S^8T^3 - 15S^9T^3 + 12T^4 + 15ST^4 - 109S^2T^4 + \\
99S^3T^4 + 371S^4T^4 - 533S^5T^4 + 371S^6T^4 + 99S^7T^4 - 109S^8T^4 + 15S^9T^4 + 12S^{10}T^4 - \\
5T^5 - 35ST^5 + 74S^2T^5 + 99S^3T^5 - 533S^4T^5 + 232S^5T^5 + 232S^6T^5 - 533S^7T^5 + 99S^8T^5 + \\
74S^9T^5 - 35S^{10}T^5 - 5S^{11}T^5 + T^6 + 20ST^6 + 27S^2T^6 - 238S^3T^6 + 371S^4T^6 + 232S^5T^6 - \\
456S^6T^6 + 232S^7T^6 + 371S^8T^6 - 238S^9T^6 + 27S^{10}T^6 + 20S^{11}T^6 + S^{12}T^6 - 5ST^7 - \\
35S^2T^7 + 74S^3T^7 + 99S^4T^7 - 533S^5T^7 + 232S^6T^7 + 232S^7T^7 - 533S^8T^7 + 99S^9T^7 + \\
74S^{10}T^7 - 35S^{11}T^7 - 5S^{12}T^7 + 12S^2T^8 + 15S^3T^8 - 109S^4T^8 + 99S^5T^8 + 371S^6T^8 - \\
533S^7T^8 + 371S^8T^8 + 99S^9T^8 - 109S^{10}T^8 + 15S^{11}T^8 + 12S^{12}T^8 - 15S^3T^9 + 15S^4T^9 + \\
74S^5T^9 - 238S^6T^9 + 99S^7T^9 + 99S^8T^9 - 238S^9T^9 + 74S^{10}T^9 + 15S^{11}T^9 - 15S^{12}T^9 + \Big)$$

$$12 S^4 T^{10} - 35 S^5 T^{10} + 27 S^6 T^{10} + 74 S^7 T^{10} - 109 S^8 T^{10} + 74 S^9 T^{10} + 27 S^{10} T^{10} - 35 S^{11} T^{10} + \\ 12 S^{12} T^{10} - 5 S^5 T^{11} + 20 S^6 T^{11} - 35 S^7 T^{11} + 15 S^8 T^{11} + 15 S^9 T^{11} - 35 S^{10} T^{11} + 20 S^{11} T^{11} - \\ 5 S^{12} T^{11} + S^6 T^{12} - 5 S^7 T^{12} + 12 S^8 T^{12} - 15 S^9 T^{12} + 12 S^{10} T^{12} - 5 S^{11} T^{12} + S^{12} T^{12}),$$

$$\text{Knot}[10, 164] \rightarrow -\frac{1}{S^4 T^4} (3 - 12 S + 19 S^2 - 12 S^3 + 3 S^4 - 12 T + 34 S T - 28 S^2 T - 28 S^3 T + \\ 34 S^4 T - 12 S^5 T + 19 T^2 - 28 S T^2 - 22 S^2 T^2 + 112 S^3 T^2 - 22 S^4 T^2 - 28 S^5 T^2 + 19 S^6 T^2 - \\ 12 T^3 - 28 S T^3 + 112 S^2 T^3 - 126 S^3 T^3 - 126 S^4 T^3 + 112 S^5 T^3 - 28 S^6 T^3 - 12 S^7 T^3 + 3 T^4 + \\ 34 S T^4 - 22 S^2 T^4 - 126 S^3 T^4 + 360 S^4 T^4 - 126 S^5 T^4 - 22 S^6 T^4 + 34 S^7 T^4 + 3 S^8 T^4 - 12 S T^5 - \\ 28 S^2 T^5 + 112 S^3 T^5 - 126 S^4 T^5 - 126 S^5 T^5 + 112 S^6 T^5 - 28 S^7 T^5 - 12 S^8 T^5 + 19 S^2 T^6 - \\ 28 S^3 T^6 - 22 S^4 T^6 + 112 S^5 T^6 - 22 S^6 T^6 - 28 S^7 T^6 + 19 S^8 T^6 - 12 S^3 T^7 + 34 S^4 T^7 - \\ 28 S^5 T^7 - 28 S^6 T^7 + 34 S^7 T^7 - 12 S^8 T^7 + 3 S^4 T^8 - 12 S^5 T^8 + 19 S^6 T^8 - 12 S^7 T^8 + 3 S^8 T^8),$$

$$\text{Knot}[10, 165] \rightarrow -\frac{1}{S^4 T^4} (9 - 44 S + 65 S^2 - 44 S^3 + 9 S^4 - 44 T + 178 S T - 104 S^2 T - 104 S^3 T + \\ 178 S^4 T - 44 S^5 T + 65 T^2 - 104 S T^2 - 607 S^2 T^2 + 1041 S^3 T^2 - 607 S^4 T^2 - 104 S^5 T^2 + 65 S^6 T^2 - \\ 44 T^3 - 104 S T^3 + 1041 S^2 T^3 - 624 S^3 T^3 - 624 S^4 T^3 + 1041 S^5 T^3 - 104 S^6 T^3 - 44 S^7 T^3 + 9 T^4 + \\ 178 S T^4 - 607 S^2 T^4 - 624 S^3 T^4 + 1404 S^4 T^4 - 624 S^5 T^4 - 607 S^6 T^4 + 178 S^7 T^4 + 9 S^8 T^4 - 44 S T^5 - \\ 104 S^2 T^5 + 1041 S^3 T^5 - 624 S^4 T^5 - 624 S^5 T^5 + 1041 S^6 T^5 - 104 S^7 T^5 - 44 S^8 T^5 + 65 S^2 T^6 - \\ 104 S^3 T^6 - 607 S^4 T^6 + 1041 S^5 T^6 - 607 S^6 T^6 - 104 S^7 T^6 + 65 S^8 T^6 - 44 S^3 T^7 + 178 S^4 T^7 - \\ 104 S^5 T^7 - 104 S^6 T^7 + 178 S^7 T^7 - 44 S^8 T^7 + 9 S^4 T^8 - 44 S^5 T^8 + 65 S^6 T^8 - 44 S^7 T^8 + 9 S^8 T^8)$$

In[]:= **Select**[**AllKnots**[{3, 10}], **KnotGenus**[#] ≤ 1 &]

Out[]:=

{Knot[3, 1], Knot[4, 1], Knot[5, 2], Knot[6, 1], Knot[7, 2], Knot[7, 4], Knot[8, 1],
Knot[8, 3], Knot[9, 2], Knot[9, 5], Knot[9, 35], Knot[9, 46], Knot[10, 1], Knot[10, 3]}

In[]:= **Select**[**AllKnots**[{3, 10}], **KnotGenus**[#] ≤ 2 &]

Out[]:=

{Knot[3, 1], Knot[4, 1], Knot[5, 1], Knot[5, 2], Knot[6, 1], Knot[6, 2], Knot[6, 3],
Knot[7, 2], Knot[7, 3], Knot[7, 4], Knot[7, 5], Knot[7, 6], Knot[7, 7], Knot[8, 1],
Knot[8, 3], Knot[8, 4], Knot[8, 6], Knot[8, 8], Knot[8, 11], Knot[8, 12], Knot[8, 13],
Knot[8, 14], Knot[8, 15], Knot[8, 20], Knot[8, 21], Knot[9, 2], Knot[9, 4], Knot[9, 5],
Knot[9, 7], Knot[9, 8], Knot[9, 10], Knot[9, 12], Knot[9, 13], Knot[9, 14], Knot[9, 15],
Knot[9, 18], Knot[9, 19], Knot[9, 21], Knot[9, 23], Knot[9, 25], Knot[9, 35], Knot[9, 37],
Knot[9, 38], Knot[9, 39], Knot[9, 41], Knot[9, 42], Knot[9, 44], Knot[9, 45], Knot[9, 46],
Knot[9, 48], Knot[9, 49], Knot[10, 1], Knot[10, 3], Knot[10, 4], Knot[10, 7],
Knot[10, 10], Knot[10, 11], Knot[10, 13], Knot[10, 16], Knot[10, 18], Knot[10, 20],
Knot[10, 24], Knot[10, 28], Knot[10, 30], Knot[10, 31], Knot[10, 33], Knot[10, 34],
Knot[10, 35], Knot[10, 36], Knot[10, 37], Knot[10, 38], Knot[10, 53], Knot[10, 55],
Knot[10, 58], Knot[10, 63], Knot[10, 67], Knot[10, 68], Knot[10, 74], Knot[10, 97],
Knot[10, 101], Knot[10, 120], Knot[10, 129], Knot[10, 130], Knot[10, 131], Knot[10, 132],
Knot[10, 133], Knot[10, 135], Knot[10, 136], Knot[10, 137], Knot[10, 140], Knot[10, 144],
Knot[10, 145], Knot[10, 146], Knot[10, 147], Knot[10, 162], Knot[10, 164], Knot[10, 165]}

In[*]:= **FiberedKnots** $\cap$ **AllKnots** [{3, 10}]

Out[*]=

{Knot[3, 1], Knot[4, 1], Knot[5, 1], Knot[6, 2], Knot[6, 3], Knot[7, 1], Knot[7, 6],
Knot[7, 7], Knot[8, 2], Knot[8, 5], Knot[8, 7], Knot[8, 9], Knot[8, 10], Knot[8, 12],
Knot[8, 16], Knot[8, 17], Knot[8, 18], Knot[8, 19], Knot[8, 20], Knot[8, 21], Knot[9, 1],
Knot[9, 11], Knot[9, 17], Knot[9, 20], Knot[9, 22], Knot[9, 24], Knot[9, 26],
Knot[9, 27], Knot[9, 28], Knot[9, 29], Knot[9, 30], Knot[9, 31], Knot[9, 32],
Knot[9, 33], Knot[9, 34], Knot[9, 36], Knot[9, 40], Knot[9, 42], Knot[9, 43],
Knot[9, 44], Knot[9, 45], Knot[9, 47], Knot[9, 48], Knot[10, 2], Knot[10, 5],
Knot[10, 9], Knot[10, 17], Knot[10, 29], Knot[10, 41], Knot[10, 42], Knot[10, 43],
Knot[10, 44], Knot[10, 45], Knot[10, 46], Knot[10, 47], Knot[10, 48], Knot[10, 59],
Knot[10, 60], Knot[10, 62], Knot[10, 64], Knot[10, 69], Knot[10, 70], Knot[10, 71],
Knot[10, 73], Knot[10, 75], Knot[10, 78], Knot[10, 79], Knot[10, 81], Knot[10, 82],
Knot[10, 85], Knot[10, 88], Knot[10, 89], Knot[10, 91], Knot[10, 94], Knot[10, 96],
Knot[10, 99], Knot[10, 100], Knot[10, 104], Knot[10, 105], Knot[10, 106], Knot[10, 107],
Knot[10, 109], Knot[10, 110], Knot[10, 112], Knot[10, 115], Knot[10, 116], Knot[10, 118],
Knot[10, 123], Knot[10, 124], Knot[10, 125], Knot[10, 126], Knot[10, 127], Knot[10, 132],
Knot[10, 133], Knot[10, 136], Knot[10, 137], Knot[10, 138], Knot[10, 139], Knot[10, 140],
Knot[10, 141], Knot[10, 143], Knot[10, 145], Knot[10, 148], Knot[10, 149], Knot[10, 150],
Knot[10, 151], Knot[10, 152], Knot[10, 153], Knot[10, 154], Knot[10, 155], Knot[10, 156],
Knot[10, 157], Knot[10, 158], Knot[10, 159], Knot[10, 160], Knot[10, 161], Knot[10, 163]}

In[*]:= **Ribbons** $\cap$ **AllKnots** [{3, 10}]

Out[*]=

{Knot[6, 1], Knot[8, 8], Knot[8, 9], Knot[8, 20], Knot[9, 27], Knot[9, 41],
Knot[9, 46], Knot[10, 3], Knot[10, 22], Knot[10, 35], Knot[10, 42],
Knot[10, 48], Knot[10, 75], Knot[10, 87], Knot[10, 99], Knot[10, 123],
Knot[10, 129], Knot[10, 137], Knot[10, 140], Knot[10, 153], Knot[10, 155]}

In[*]:= **Table**[**K** $\rightarrow$ **Factor**[**Θ** [**K**]], {**K**, **Ribbons** $\cap$ **AllKnots** [{3, 10}]}]

Out[*]=

{Knot[6, 1] $\rightarrow$

$$\left\{ -\frac{(-2 + T)(-1 + 2T)}{T}, \frac{1}{T_1^2 T_2^2} (1 - 3T_1 + T_1^2 - 3T_2 + 6T_1 T_2 + 6T_1^2 T_2 - 3T_1^3 T_2 + T_2^2 + 6T_1 T_2^2 - 24T_1^2 T_2^2 + 6T_1^3 T_2^2 + T_1^4 T_2^2 - 3T_1 T_2^3 + 6T_1^2 T_2^3 + 6T_1^3 T_2^3 - 3T_1^4 T_2^3 + T_1^2 T_2^4 - 3T_1^3 T_2^4 + T_1^4 T_2^4) \right\},$$

Knot[8, 8] $\rightarrow$ $\left\{ \frac{(2 - 2T + T^2)(1 - 2T + 2T^2)}{T^2}, \frac{1}{T_1^4 T_2^2} (1 - 3T_1 + 5T_1^2 - 3T_1^3 + T_1^4 - 3T_2 + 6T_1 T_2 - 6T_1^2 T_2 - 6T_1^3 T_2 + 6T_1^4 T_2 - 3T_1^5 T_2 + 5T_2^2 - 6T_1 T_2^2 + 9T_1^2 T_2^2 + 5T_1^3 T_2^2 + 9T_1^4 T_2^2 - 6T_1^5 T_2^2 + 5T_1^6 T_2^2 - 3T_2^3 - 6T_1 T_2^3 + 5T_1^2 T_2^3 - 18T_1^3 T_2^3 - 18T_1^4 T_2^3 + 5T_1^5 T_2^3 - 6T_1^6 T_2^3 - 3T_1^7 T_2^3 + T_2^4 + 6T_1 T_2^4 + 9T_1^2 T_2^4 - 18T_1^3 T_2^4 + 60T_1^4 T_2^4 - 18T_1^5 T_2^4 + 9T_1^6 T_2^4 + 6T_1^7 T_2^4 + T_1^8 T_2^4 - 3T_1 T_2^5 - 6T_1^2 T_2^5 + 5T_1^3 T_2^5 - 18T_1^4 T_2^5 - 18T_1^5 T_2^5 + 5T_1^6 T_2^5 - 6T_1^7 T_2^5 - 3T_1^8 T_2^5 + 5T_1^2 T_2^6 - 6T_1^3 T_2^6 + 9T_1^4 T_2^6 + 5T_1^5 T_2^6 + 9T_1^6 T_2^6 - 6T_1^7 T_2^6 + 5T_1^8 T_2^6 - 3T_1^3 T_2^7 + 6T_1^4 T_2^7 - 6T_1^5 T_2^7 - 6T_1^6 T_2^7 + 6T_1^7 T_2^7 - 3T_1^8 T_2^7 + T_1^4 T_2^8 - 3T_1^5 T_2^8 + 5T_1^6 T_2^8 - 3T_1^7 T_2^8 + T_1^8 T_2^8) \right\},$
Knot[8, 9] $\rightarrow$ $\left\{ -\frac{(-1 + T - 2T^2 + T^3)(-1 + 2T - T^2 + T^3)}{T^3}, 0 \right\},$
Knot[8, 20] $\rightarrow$

$$\begin{aligned}
& \left\{ \frac{(1 - T + T^2)^2}{T^2}, -\frac{1}{T_1^2 T_2^2} 2 \left(3 - 4 T_1 + 3 T_1^2 - 4 T_2 + T_1 T_2 + T_1^2 T_2 - 4 T_1^3 T_2 + 3 T_2^2 + T_1 T_2^2 + \right. \right. \\
& \quad \left. \left. T_1^3 T_2^2 + 3 T_1^4 T_2^2 - 4 T_1 T_2^3 + T_1^2 T_2^3 + T_1^3 T_2^3 - 4 T_1^4 T_2^3 + 3 T_1^2 T_2^4 - 4 T_1^3 T_2^4 + 3 T_1^4 T_2^4 \right) \right\}, \\
\text{Knot}[9, 27] & \rightarrow \left\{ -\frac{(-1 + 2 T - 3 T^2 + T^3)(-1 + 3 T - 2 T^2 + T^3)}{T^3}, \right. \\
& -\frac{1}{T_1^4 T_2^4} \left(1 - T_1 + T_1^2 - T_1^3 + T_1^4 - T_2 - 8 T_1 T_2 + 4 T_1^2 T_2 + 4 T_1^3 T_2 - 8 T_1^4 T_2 - T_1^5 T_2 + T_2^2 + 4 T_1 T_2^2 + \right. \\
& \quad 49 T_1^2 T_2^2 - 67 T_1^3 T_2^2 + 49 T_1^4 T_2^2 + 4 T_1^5 T_2^2 + T_1^6 T_2^2 - T_2^3 + 4 T_1 T_2^3 - 67 T_1^2 T_2^3 + 20 T_1^3 T_2^3 + \\
& \quad 20 T_1^4 T_2^3 - 67 T_1^5 T_2^3 + 4 T_1^6 T_2^3 - T_1^7 T_2^3 + T_2^4 - 8 T_1 T_2^4 + 49 T_1^2 T_2^4 + 20 T_1^3 T_2^4 - 12 T_1^4 T_2^4 + \\
& \quad 20 T_1^5 T_2^4 + 49 T_1^6 T_2^4 - 8 T_1^7 T_2^4 + T_1^8 T_2^4 - T_1 T_2^5 + 4 T_1^2 T_2^5 - 67 T_1^3 T_2^5 + 20 T_1^4 T_2^5 + 20 T_1^5 T_2^5 - \\
& \quad 67 T_1^6 T_2^5 + 4 T_1^7 T_2^5 - T_1^8 T_2^5 + T_1^2 T_2^6 + 4 T_1^3 T_2^6 + 49 T_1^4 T_2^6 - 67 T_1^5 T_2^6 + 49 T_1^6 T_2^6 + 4 T_1^7 T_2^6 + T_1^8 T_2^6 - \\
& \quad \left. T_1^3 T_2^7 - 8 T_1^4 T_2^7 + 4 T_1^5 T_2^7 + 4 T_1^6 T_2^7 - 8 T_1^7 T_2^7 - T_1^8 T_2^7 + T_1^4 T_2^8 - T_1^5 T_2^8 + T_1^6 T_2^8 - T_1^7 T_2^8 + T_1^8 T_2^8 \right) \Big\}, \\
\text{Knot}[9, 41] & \rightarrow \left\{ \frac{(3 - 3 T + T^2)(1 - 3 T + 3 T^2)}{T^2}, -\frac{1}{T_1^4 T_2^4} \left(3 - 15 T_1 + 27 T_1^2 - 15 T_1^3 + 3 T_1^4 - 15 T_2 + \right. \right. \\
& \quad 58 T_1 T_2 - 56 T_1^2 T_2 - 56 T_1^3 T_2 + 58 T_1^4 T_2 - 15 T_1^5 T_2 + 27 T_2^2 - 56 T_1 T_2^2 - 81 T_1^2 T_2^2 + 333 T_1^3 T_2^2 - 81 T_1^4 T_2^2 - \\
& \quad 56 T_1^5 T_2^2 + 27 T_1^6 T_2^2 - 15 T_2^3 - 56 T_1 T_2^3 + 333 T_1^2 T_2^3 - 396 T_1^3 T_2^3 - 396 T_1^4 T_2^3 + 333 T_1^5 T_2^3 - 56 T_1^6 T_2^3 - \\
& \quad 15 T_1^7 T_2^3 + 3 T_2^4 + 58 T_1 T_2^4 - 81 T_1^2 T_2^4 - 396 T_1^3 T_2^4 + 1188 T_1^4 T_2^4 - 396 T_1^5 T_2^4 - 81 T_1^6 T_2^4 + 58 T_1^7 T_2^4 + \\
& \quad 3 T_1^8 T_2^4 - 15 T_1 T_2^5 - 56 T_1^2 T_2^5 + 333 T_1^3 T_2^5 - 396 T_1^4 T_2^5 - 396 T_1^5 T_2^5 + 333 T_1^6 T_2^5 - 56 T_1^7 T_2^5 - 15 T_1^8 T_2^5 + \\
& \quad 27 T_1^2 T_2^6 - 56 T_1^3 T_2^6 - 81 T_1^4 T_2^6 + 333 T_1^5 T_2^6 - 81 T_1^6 T_2^6 - 56 T_1^7 T_2^6 + 27 T_1^8 T_2^6 - 15 T_1^3 T_2^7 + 58 T_1^4 T_2^7 - \\
& \quad \left. 56 T_1^5 T_2^7 - 56 T_1^6 T_2^7 + 58 T_1^7 T_2^7 - 15 T_1^8 T_2^7 + 3 T_1^4 T_2^8 - 15 T_1^5 T_2^8 + 27 T_1^6 T_2^8 - 15 T_1^7 T_2^8 + 3 T_1^8 T_2^8 \right) \Big\}, \\
\text{Knot}[9, 46] & \rightarrow \left\{ -\frac{(-2 + T)(-1 + 2 T)}{T}, \frac{1}{T_1^2 T_2^2} 3 \left(1 - 3 T_1 + T_1^2 - 3 T_2 + 6 T_1 T_2 + 6 T_1^2 T_2 - 3 T_1^3 T_2 + \right. \right. \\
& \quad \left. \left. T_2^2 + 6 T_1 T_2^2 - 24 T_1^2 T_2^2 + 6 T_1^3 T_2^2 + T_1^4 T_2^2 - 3 T_1 T_2^3 + 6 T_1^2 T_2^3 + 6 T_1^3 T_2^3 - 3 T_1^4 T_2^3 + T_1^2 T_2^4 - 3 T_1^3 T_2^4 + T_1^4 T_2^4 \right) \right\}, \\
\text{Knot}[10, 3] & \rightarrow \left\{ -\frac{(-3 + 2 T)(-2 + 3 T)}{T}, \frac{1}{T_1^2 T_2^2} \left(45 - 101 T_1 + 45 T_1^2 - 101 T_2 + 126 T_1 T_2 + \right. \right. \\
& \quad 126 T_1^2 T_2 - 101 T_1^3 T_2 + 45 T_2^2 + 126 T_1 T_2^2 - 420 T_1^2 T_2^2 + 126 T_1^3 T_2^2 + 45 T_1^4 T_2^2 - \\
& \quad \left. \left. 101 T_1 T_2^3 + 126 T_1^2 T_2^3 + 126 T_1^3 T_2^3 - 101 T_1^4 T_2^3 + 45 T_1^2 T_2^4 - 101 T_1^3 T_2^4 + 45 T_1^4 T_2^4 \right) \right\}, \\
\text{Knot}[10, 22] & \rightarrow \left\{ -\frac{(-2 + 2 T - 2 T^2 + T^3)(-1 + 2 T - 2 T^2 + 2 T^3)}{T^3}, \right. \\
& -\frac{1}{T_1^6 T_2^6} \left(1 - 3 T_1 + 5 T_1^2 - 7 T_1^3 + 5 T_1^4 - 3 T_1^5 + T_1^6 - 3 T_2 + 6 T_1 T_2 - 6 T_1^2 T_2 + 6 T_1^3 T_2 + 6 T_1^4 T_2 - 6 T_1^5 T_2 + \right. \\
& \quad 6 T_1^6 T_2 - 3 T_1^7 T_2 + 5 T_2^2 - 6 T_1 T_2^2 + 3 T_1^2 T_2^2 - 9 T_1^3 T_2^2 - 5 T_1^4 T_2^2 - 9 T_1^5 T_2^2 + 3 T_1^6 T_2^2 - 6 T_1^7 T_2^2 + \\
& \quad 5 T_1^8 T_2^2 - 7 T_2^3 + 6 T_1 T_2^3 - 9 T_1^2 T_2^3 + 30 T_1^3 T_2^3 + 4 T_1^4 T_2^3 + 4 T_1^5 T_2^3 + 30 T_1^6 T_2^3 - 9 T_1^7 T_2^3 + 6 T_1^8 T_2^3 - \\
& \quad 7 T_1^9 T_2^3 + 5 T_2^4 + 6 T_1 T_2^4 - 5 T_1^2 T_2^4 + 4 T_1^3 T_2^4 - 89 T_1^4 T_2^4 + 63 T_1^5 T_2^4 - 89 T_1^6 T_2^4 + 4 T_1^7 T_2^4 - 5 T_1^8 T_2^4 + \\
& \quad 6 T_1^9 T_2^4 + 5 T_1^{10} T_2^4 - 3 T_2^5 - 6 T_1 T_2^5 - 9 T_1^2 T_2^5 + 4 T_1^3 T_2^5 + 63 T_1^4 T_2^5 + 22 T_1^5 T_2^5 + 22 T_1^6 T_2^5 + 63 T_1^7 T_2^5 + \\
& \quad 4 T_1^8 T_2^5 - 9 T_1^9 T_2^5 - 6 T_1^{10} T_2^5 - 3 T_1^{11} T_2^5 + T_2^6 + 6 T_1 T_2^6 + 3 T_1^2 T_2^6 + 30 T_1^3 T_2^6 - 89 T_1^4 T_2^6 + 22 T_1^5 T_2^6 - \\
& \quad 108 T_1^6 T_2^6 + 22 T_1^7 T_2^6 - 89 T_1^8 T_2^6 + 30 T_1^9 T_2^6 + 3 T_1^{10} T_2^6 + 6 T_1^{11} T_2^6 + T_1^{12} T_2^6 - 3 T_1 T_2^7 - 6 T_1^2 T_2^7 - \\
& \quad 9 T_1^3 T_2^7 + 4 T_1^4 T_2^7 + 63 T_1^5 T_2^7 + 22 T_1^6 T_2^7 + 22 T_1^7 T_2^7 + 63 T_1^8 T_2^7 + 4 T_1^9 T_2^7 - 9 T_1^{10} T_2^7 - 6 T_1^{11} T_2^7 - \\
& \quad 3 T_1^{12} T_2^7 + 5 T_1^{13} T_2^7 + 6 T_1^{14} T_2^7 - 5 T_1^4 T_2^8 + 4 T_1^5 T_2^8 - 89 T_1^6 T_2^8 + 63 T_1^7 T_2^8 - 89 T_1^8 T_2^8 + 4 T_1^9 T_2^8 - \\
& \quad 5 T_1^{10} T_2^8 + 6 T_1^{11} T_2^8 + 5 T_1^{12} T_2^8 - 7 T_1^{13} T_2^8 + 6 T_1^{14} T_2^8 - 9 T_1^{15} T_2^8 + 30 T_1^{16} T_2^8 + 4 T_1^7 T_2^9 + 4 T_1^8 T_2^9 + 30 T_1^9 T_2^9 - \\
& \quad \left. 9 T_1^{10} T_2^9 + 6 T_1^{11} T_2^9 - 7 T_1^{12} T_2^9 + 5 T_1^{13} T_2^9 - 6 T_1^{14} T_2^9 + 3 T_1^{15} T_2^9 - 9 T_1^{16} T_2^9 - 5 T_1^{17} T_2^9 - 9 T_1^{18} T_2^9 \right) \Big\}
\end{aligned}$$

$$\begin{aligned}
& 3 T_1^{10} T_2^{10} - 6 T_1^{11} T_2^{10} + 5 T_1^{12} T_2^{10} - 3 T_1^5 T_2^{11} + 6 T_1^6 T_2^{11} - 6 T_1^7 T_2^{11} + 6 T_1^8 T_2^{11} + 6 T_1^9 T_2^{11} - 6 T_1^{10} T_2^{11} + \\
& 6 T_1^{11} T_2^{11} - 3 T_1^{12} T_2^{11} + T_1^6 T_2^{12} - 3 T_1^7 T_2^{12} + 5 T_1^8 T_2^{12} - 7 T_1^9 T_2^{12} + 5 T_1^{10} T_2^{12} - 3 T_1^{11} T_2^{12} + T_1^{12} T_2^{12} \Big\}, \\
\text{Knot}[10, 35] \rightarrow & \left\{ \frac{(2 - 4 T + T^2)(1 - 4 T + 2 T^2)}{T^2}, \frac{1}{T_1^4 T_2^4} (1 - 7 T_1 + 13 T_1^2 - 7 T_1^3 + T_1^4 - 7 T_2 + \right. \\
& 42 T_1 T_2 - 42 T_1^2 T_2 - 42 T_1^3 T_2 + 42 T_1^4 T_2 - 7 T_1^5 T_2 + 13 T_1^2 T_2^2 - 42 T_1 T_2^2 - 148 T_1^2 T_2^2 + 426 T_1^3 T_2^2 - \\
& 148 T_1^4 T_2^2 - 42 T_1^5 T_2^2 + 13 T_1^6 T_2^2 - 7 T_1^3 T_2^3 - 42 T_1 T_2^3 + 426 T_1^2 T_2^3 - 468 T_1^3 T_2^3 - 468 T_1^4 T_2^3 + 426 T_1^5 T_2^3 - \\
& 42 T_1^6 T_2^3 - 7 T_1^7 T_2^3 + T_2^4 + 42 T_1 T_2^4 - 148 T_1^2 T_2^4 - 468 T_1^3 T_2^4 + 1392 T_1^4 T_2^4 - 468 T_1^5 T_2^4 - 148 T_1^6 T_2^4 + \\
& 42 T_1^7 T_2^4 + T_1^8 T_2^4 - 7 T_1 T_2^5 - 42 T_1^2 T_2^5 + 426 T_1^3 T_2^5 - 468 T_1^4 T_2^5 - 468 T_1^5 T_2^5 + 426 T_1^6 T_2^5 - 42 T_1^7 T_2^5 - \\
& 7 T_1^8 T_2^5 + 13 T_1^2 T_2^6 - 42 T_1^3 T_2^6 - 148 T_1^4 T_2^6 + 426 T_1^5 T_2^6 - 148 T_1^6 T_2^6 - 42 T_1^7 T_2^6 + 13 T_1^8 T_2^6 - 7 T_1^3 T_2^7 + \\
& 42 T_1^4 T_2^7 - 42 T_1^5 T_2^7 - 42 T_1^6 T_2^7 + 42 T_1^7 T_2^7 - 7 T_1^8 T_2^7 + T_1^4 T_2^8 - 7 T_1^5 T_2^8 + 13 T_1^6 T_2^8 - 7 T_1^7 T_2^8 + T_1^8 T_2^8 \Big\}, \\
\text{Knot}[10, 42] \rightarrow & \left\{ -\frac{(-1 + 3 T - 4 T^2 + T^3)(-1 + 4 T - 3 T^2 + T^3)}{T^3}, \right. \\
& -\frac{1}{T_1^4 T_2^4} (6 - 24 T_1 + 38 T_1^2 - 24 T_1^3 + 6 T_1^4 - 24 T_2 + 72 T_1 T_2 - 54 T_1^2 T_2 - 54 T_1^3 T_2 + 72 T_1^4 T_2 - \\
& 24 T_1^5 T_2 + 38 T_2^2 - 54 T_1 T_2^2 - 109 T_1^2 T_2^2 + 279 T_1^3 T_2^2 - 109 T_1^4 T_2^2 - 54 T_1^5 T_2^2 + 38 T_1^6 T_2^2 - 24 T_2^3 - \\
& 54 T_1 T_2^3 + 279 T_1^2 T_2^3 - 222 T_1^3 T_2^3 - 222 T_1^4 T_2^3 + 279 T_1^5 T_2^3 - 54 T_1^6 T_2^3 - 24 T_1^7 T_2^3 + 6 T_2^4 + 72 T_1 T_2^4 - \\
& 109 T_1^2 T_2^4 - 222 T_1^3 T_2^4 + 552 T_1^4 T_2^4 - 222 T_1^5 T_2^4 - 109 T_1^6 T_2^4 + 72 T_1^7 T_2^4 + 6 T_1^8 T_2^4 - 24 T_1 T_2^5 - \\
& 54 T_1^2 T_2^5 + 279 T_1^3 T_2^5 - 222 T_1^4 T_2^5 - 222 T_1^5 T_2^5 + 279 T_1^6 T_2^5 - 54 T_1^7 T_2^5 - 24 T_1^8 T_2^5 + 38 T_1^2 T_2^6 - \\
& 54 T_1^3 T_2^6 - 109 T_1^4 T_2^6 + 279 T_1^5 T_2^6 - 109 T_1^6 T_2^6 - 54 T_1^7 T_2^6 + 38 T_1^8 T_2^6 - 24 T_1^3 T_2^7 + 72 T_1^4 T_2^7 - \\
& 54 T_1^5 T_2^7 - 54 T_1^6 T_2^7 + 72 T_1^7 T_2^7 - 24 T_1^8 T_2^7 + 6 T_1^4 T_2^8 - 24 T_1^5 T_2^8 + 38 T_1^6 T_2^8 - 24 T_1^7 T_2^8 + 6 T_1^8 T_2^8 \Big\}, \\
\text{Knot}[10, 48] \rightarrow & \left\{ \frac{(1 - T + 2 T^2 - 2 T^3 + T^4)(1 - 2 T + 2 T^2 - T^3 + T^4)}{T^4}, \right. \\
& -\frac{1}{T_1^6 T_2^6} (1 - 2 T_1 + 2 T_1^2 - T_1^3 + 2 T_1^4 - 2 T_1^5 + T_1^6 - 2 T_2 + 2 T_1 T_2 + T_1^2 T_2 - 3 T_1^3 T_2 - 3 T_1^4 T_2 + T_1^5 T_2 + 2 T_1^6 T_2 - \\
& 2 T_1^7 T_2 + 2 T_2^2 + T_1 T_2^2 - 9 T_1^2 T_2^2 + 9 T_1^3 T_2^2 + T_1^4 T_2^2 + 9 T_1^5 T_2^2 - 9 T_1^6 T_2^2 + T_1^7 T_2^2 + 2 T_1^8 T_2^2 - T_2^3 - 3 T_1 T_2^3 + \\
& 9 T_1^2 T_2^3 + 2 T_1^3 T_2^3 - 10 T_1^4 T_2^3 - 10 T_1^5 T_2^3 + 2 T_1^6 T_2^3 + 9 T_1^7 T_2^3 - 3 T_1^8 T_2^3 - T_1^9 T_2^3 + 2 T_2^4 - 3 T_1 T_2^4 + T_1^2 T_2^4 - \\
& 10 T_1^3 T_2^4 - 5 T_1^4 T_2^4 + 29 T_1^5 T_2^4 - 5 T_1^6 T_2^4 - 10 T_1^7 T_2^4 + T_1^8 T_2^4 - 3 T_1^9 T_2^4 + 2 T_1^{10} T_2^4 - 2 T_2^5 + T_1 T_2^5 + 9 T_1^2 T_2^5 - \\
& 10 T_1^3 T_2^5 + 29 T_1^4 T_2^5 - 22 T_1^5 T_2^5 - 22 T_1^6 T_2^5 + 29 T_1^7 T_2^5 - 10 T_1^8 T_2^5 + 9 T_1^9 T_2^5 + T_1^{10} T_2^5 - 2 T_1^{11} T_2^5 + T_2^6 + \\
& 2 T_1 T_2^6 - 9 T_1^2 T_2^6 + 2 T_1^3 T_2^6 - 5 T_1^4 T_2^6 - 22 T_1^5 T_2^6 + 48 T_1^6 T_2^6 - 22 T_1^7 T_2^6 - 5 T_1^8 T_2^6 + 2 T_1^9 T_2^6 - 9 T_1^{10} T_2^6 + \\
& 2 T_1^{11} T_2^6 + T_1^{12} T_2^6 - 2 T_1 T_2^7 + T_1^2 T_2^7 + 9 T_1^3 T_2^7 - 10 T_1^4 T_2^7 + 29 T_1^5 T_2^7 - 22 T_1^6 T_2^7 - 22 T_1^7 T_2^7 + 29 T_1^8 T_2^7 - \\
& 10 T_1^9 T_2^7 + 9 T_1^{10} T_2^7 + T_1^{11} T_2^7 - 2 T_1^{12} T_2^7 + 2 T_2^8 - 3 T_1 T_2^8 + T_1^2 T_2^8 - 10 T_1^3 T_2^8 + 29 T_1^4 T_2^8 - 5 T_1^5 T_2^8 + 29 T_1^6 T_2^8 - \\
& 5 T_1^7 T_2^8 - 10 T_1^8 T_2^8 + T_1^{10} T_2^8 - 3 T_1^{11} T_2^8 + 2 T_1^{12} T_2^8 - T_1^3 T_2^9 - 3 T_1^4 T_2^9 + 9 T_1^5 T_2^9 + 2 T_1^6 T_2^9 - 10 T_1^7 T_2^9 - \\
& 10 T_1^8 T_2^9 + 2 T_1^9 T_2^9 + 9 T_1^{10} T_2^9 - 3 T_1^{11} T_2^9 - T_1^{12} T_2^9 + 2 T_1^4 T_2^{10} + T_1^5 T_2^{10} - 9 T_1^6 T_2^{10} + 9 T_1^7 T_2^{10} + T_1^8 T_2^{10} + \\
& 9 T_1^9 T_2^{10} - 9 T_1^{10} T_2^{10} + T_1^{11} T_2^{10} + 2 T_1^{12} T_2^{10} - 2 T_1^5 T_2^{11} + 2 T_1^6 T_2^{11} + T_1^7 T_2^{11} - 3 T_1^8 T_2^{11} - 3 T_1^9 T_2^{11} + T_1^{10} T_2^{11} + \\
& 2 T_1^{11} T_2^{11} - 2 T_1^{12} T_2^{11} + T_1^6 T_2^{12} - 2 T_1^7 T_2^{12} + 2 T_1^8 T_2^{12} - T_1^9 T_2^{12} + 2 T_1^{10} T_2^{12} - 2 T_1^{11} T_2^{12} + T_1^{12} T_2^{12} \Big\}, \\
\text{Knot}[10, 75] \rightarrow & \left\{ -\frac{(-1 + 3 T - 4 T^2 + T^3)(-1 + 4 T - 3 T^2 + T^3)}{T^3}, \right. \\
& \frac{1}{T_1^4 T_2^4} (2 - 8 T_1 + 16 T_1^2 - 8 T_1^3 + 2 T_1^4 - 8 T_2 + 18 T_1 T_2 - 32 T_1^2 T_2 - 32 T_1^3 T_2 + 18 T_1^4 T_2 - 8 T_1^5 T_2 + 16 T_2^2 - \\
& 32 T_1 T_2^2 + 75 T_1^2 T_2^2 + 75 T_1^3 T_2^2 + 75 T_1^4 T_2^2 - 32 T_1^5 T_2^2 + 16 T_1^6 T_2^2 - 8 T_2^3 - 32 T_1 T_2^3 + 75 T_1^2 T_2^3 - 256 T_1^3 T_2^3 - \\
& 256 T_1^4 T_2^3 + 75 T_1^5 T_2^3 - 32 T_1^6 T_2^3 - 8 T_1^7 T_2^3 + 2 T_2^4 + 18 T_1 T_2^4 + 75 T_1^2 T_2^4 - 256 T_1^3 T_2^4 + 900 T_1^4 T_2^4 - 256 T_1^5 T_2^4 + \\
& 75 T_1^6 T_2^4 + 18 T_1^7 T_2^4 + 2 T_1^8 T_2^4 - 8 T_1 T_2^5 - 32 T_1^2 T_2^5 + 75 T_1^3 T_2^5 - 256 T_1^4 T_2^5 - 256 T_1^5 T_2^5 + 75 T_1^6 T_2^5 -
\end{aligned}$$

$$32 T_1^7 T_2^5 - 8 T_1^8 T_2^5 + 16 T_1^2 T_2^6 - 32 T_1^3 T_2^6 + 75 T_1^4 T_2^6 + 75 T_1^5 T_2^6 + 75 T_1^6 T_2^6 - 32 T_1^7 T_2^6 + 16 T_1^8 T_2^6 - 8 T_1^3 T_2^7 + 18 T_1^4 T_2^7 - 32 T_1^5 T_2^7 - 32 T_1^6 T_2^7 + 18 T_1^7 T_2^7 - 8 T_1^8 T_2^7 + 2 T_1^4 T_2^8 - 8 T_1^5 T_2^8 + 16 T_1^6 T_2^8 - 8 T_1^7 T_2^8 + 2 T_1^8 T_2^8 \Big\},$$

$$\text{Knot}[10, 87] \rightarrow \left\{ -\frac{(-2 + T)(-1 + 2T)(1 - T + T^2)^2}{T^3}, \right.$$

$$-\frac{1}{T_1^6 T_2^6} \left(1 - 4 T_1 + 8 T_1^2 - 11 T_1^3 + 8 T_1^4 - 4 T_1^5 + T_1^6 - 4 T_2 + 12 T_1 T_2 - 16 T_1^2 T_2 + 12 T_1^3 T_2 + 12 T_1^4 T_2 - 16 T_1^5 T_2 + \right. \\ 12 T_1^6 T_2 - 4 T_1^7 T_2 + 8 T_2^2 - 16 T_1 T_2^2 + 12 T_1^2 T_2^2 - 13 T_1^3 T_2^2 - 18 T_1^4 T_2^2 - 13 T_1^5 T_2^2 + 12 T_1^6 T_2^2 - 16 T_1^7 T_2^2 + \\ 8 T_1^8 T_2^2 - 11 T_2^3 + 12 T_1 T_2^3 - 13 T_1^2 T_2^3 + 62 T_1^3 T_2^3 + 9 T_1^4 T_2^3 + 9 T_1^5 T_2^3 + 62 T_1^6 T_2^3 - 13 T_1^7 T_2^3 + 12 T_1^8 T_2^3 - \\ 11 T_1^9 T_2^3 + 8 T_2^4 + 12 T_1 T_2^4 - 18 T_1^2 T_2^4 + 9 T_1^3 T_2^4 - 296 T_1^4 T_2^4 + 290 T_1^5 T_2^4 - 296 T_1^6 T_2^4 + 9 T_1^7 T_2^4 - 18 T_1^8 T_2^4 + \\ 12 T_1^9 T_2^4 + 8 T_1^{10} T_2^4 - 4 T_2^5 - 16 T_1 T_2^5 - 13 T_1^2 T_2^5 + 9 T_1^3 T_2^5 + 290 T_1^4 T_2^5 - 32 T_1^5 T_2^5 - 32 T_1^6 T_2^5 + 290 T_1^7 T_2^5 + \\ 9 T_1^8 T_2^5 - 13 T_1^9 T_2^5 - 16 T_1^{10} T_2^5 - 4 T_1^{11} T_2^5 + T_2^6 + 12 T_1 T_2^6 + 12 T_1^2 T_2^6 + 62 T_1^3 T_2^6 - 296 T_1^4 T_2^6 - 32 T_1^5 T_2^6 - \\ 72 T_1^6 T_2^6 - 32 T_1^7 T_2^6 - 296 T_1^8 T_2^6 + 62 T_1^9 T_2^6 + 12 T_1^{10} T_2^6 + 12 T_1^{11} T_2^6 + T_2^7 - 4 T_1 T_2^7 - 16 T_1^2 T_2^7 - \\ 13 T_1^3 T_2^7 + 9 T_1^4 T_2^7 + 290 T_1^5 T_2^7 - 32 T_1^6 T_2^7 - 32 T_1^7 T_2^7 + 290 T_1^8 T_2^7 + 9 T_1^9 T_2^7 - 13 T_1^{10} T_2^7 - 16 T_1^{11} T_2^7 - \\ 4 T_1^{12} T_2^7 + 8 T_1^{13} T_2^7 + 12 T_1^{14} T_2^7 - 18 T_1^{15} T_2^7 + 9 T_1^{16} T_2^7 - 296 T_1^{17} T_2^7 + 290 T_1^{18} T_2^7 - 296 T_1^{19} T_2^7 + 9 T_1^{20} T_2^7 - \\ 18 T_1^{21} T_2^7 + 12 T_1^{22} T_2^7 + 8 T_1^{23} T_2^7 - 11 T_1^{24} T_2^7 + 12 T_1^{25} T_2^7 - 13 T_1^{26} T_2^7 + 62 T_1^{27} T_2^7 + 9 T_1^{28} T_2^7 + 9 T_1^{29} T_2^7 + 62 T_1^{30} T_2^7 - \\ 13 T_1^{31} T_2^7 + 12 T_1^{32} T_2^7 - 11 T_1^{33} T_2^7 + 8 T_1^{34} T_2^7 - 16 T_1^{35} T_2^7 + 12 T_1^{36} T_2^7 - 13 T_1^{37} T_2^7 - 18 T_1^{38} T_2^7 - 13 T_1^{39} T_2^7 + \\ 12 T_1^{40} T_2^7 - 16 T_1^{41} T_2^7 + 8 T_1^{42} T_2^7 - 4 T_1^{43} T_2^7 + 12 T_1^{44} T_2^7 - 16 T_1^{45} T_2^7 + 12 T_1^{46} T_2^7 + 12 T_1^{47} T_2^7 - 16 T_1^{48} T_2^7 + \\ 12 T_1^{49} T_2^7 - 4 T_1^{50} T_2^7 + T_2^{12} - 4 T_1 T_2^{12} + 8 T_1^2 T_2^{12} - 11 T_1^3 T_2^{12} + 8 T_1^4 T_2^{12} - 4 T_1^5 T_2^{12} + T_2^{13} \Big\},$$

$$\text{Knot}[10, 99] \rightarrow \left\{ \frac{(1 - T + T^2)^4}{T^4}, 0 \right\}, \text{Knot}[10, 123] \rightarrow$$

$$\left\{ \frac{(1 - 3T + 3T^2 - 3T^3 + T^4)^2}{T^4}, \right. \\ \left. 0 \right\},$$

$$\text{Knot}[10, 129] \rightarrow \left\{ \frac{(2 - 2T + T^2)(1 - 2T + 2T^2)}{T^2}, \right.$$

$$\frac{1}{T_1^4 T_2^4} \left(1 - 2 T_1 + 3 T_1^2 - 2 T_1^3 + T_1^4 - 2 T_2 + 4 T_1 T_2 - 2 T_1^2 T_2 - 2 T_1^3 T_2 + 4 T_1^4 T_2 - 2 T_1^5 T_2 + 3 T_2^2 - 2 T_1 T_2^2 - \right. \\ 31 T_1^2 T_2^2 + 43 T_1^3 T_2^2 - 31 T_1^4 T_2^2 - 2 T_1^5 T_2^2 + 3 T_1^6 T_2^2 - 2 T_2^3 - 2 T_1 T_2^3 + 43 T_1^2 T_2^3 - 14 T_1^3 T_2^3 - 14 T_1^4 T_2^3 + \\ 43 T_1^5 T_2^3 - 2 T_1^6 T_2^3 - 2 T_1^7 T_2^3 + T_2^4 + 4 T_1 T_2^4 - 31 T_1^2 T_2^4 - 14 T_1^3 T_2^4 + 12 T_1^4 T_2^4 - 14 T_1^5 T_2^4 - 31 T_1^6 T_2^4 + 4 T_1^7 T_2^4 + \\ T_2^5 - 2 T_1 T_2^5 - 2 T_1^2 T_2^5 + 43 T_1^3 T_2^5 - 14 T_1^4 T_2^5 - 14 T_1^5 T_2^5 + 43 T_1^6 T_2^5 - 2 T_1^7 T_2^5 - 2 T_1^8 T_2^5 + 3 T_1^9 T_2^5 - \\ 2 T_1^{10} T_2^5 - 31 T_1^{11} T_2^5 + 43 T_1^{12} T_2^5 - 31 T_1^{13} T_2^5 - 2 T_1^{14} T_2^5 + 3 T_1^{15} T_2^5 - 2 T_1^{16} T_2^5 + 4 T_1^{17} T_2^5 - 2 T_1^{18} T_2^5 - \\ 4 T_1^{19} T_2^5 + 3 T_1^{20} T_2^5 - 2 T_1^{21} T_2^5 + T_2^6 + 12 T_1 T_2^6 + 12 T_1^2 T_2^6 + 62 T_1^3 T_2^6 - 296 T_1^4 T_2^6 - 32 T_1^5 T_2^6 - 72 T_1^6 T_2^6 - 32 T_1^7 T_2^6 - 296 T_1^8 T_2^6 + 62 T_1^9 T_2^6 + 12 T_1^{10} T_2^6 + 12 T_1^{11} T_2^6 + T_2^7 - 4 T_1 T_2^7 - 16 T_1^2 T_2^7 - \\ 13 T_1^3 T_2^7 + 9 T_1^4 T_2^7 + 290 T_1^5 T_2^7 - 32 T_1^6 T_2^7 - 32 T_1^7 T_2^7 + 290 T_1^8 T_2^7 + 9 T_1^9 T_2^7 - 13 T_1^{10} T_2^7 - 16 T_1^{11} T_2^7 - \\ 4 T_1^{12} T_2^7 + 8 T_1^{13} T_2^7 + 12 T_1^{14} T_2^7 - 18 T_1^{15} T_2^7 + 9 T_1^{16} T_2^7 - 296 T_1^{17} T_2^7 + 290 T_1^{18} T_2^7 - 296 T_1^{19} T_2^7 + 9 T_1^{20} T_2^7 - \\ 18 T_1^{21} T_2^7 + 12 T_1^{22} T_2^7 + 8 T_1^{23} T_2^7 - 11 T_1^{24} T_2^7 + 12 T_1^{25} T_2^7 - 13 T_1^{26} T_2^7 + 62 T_1^{27} T_2^7 + 9 T_1^{28} T_2^7 + 9 T_1^{29} T_2^7 + 62 T_1^{30} T_2^7 - \\ 13 T_1^{31} T_2^7 + 12 T_1^{32} T_2^7 - 11 T_1^{33} T_2^7 + 8 T_1^{34} T_2^7 - 16 T_1^{35} T_2^7 + 12 T_1^{36} T_2^7 - 13 T_1^{37} T_2^7 - 18 T_1^{38} T_2^7 - 13 T_1^{39} T_2^7 + \\ 12 T_1^{40} T_2^7 - 16 T_1^{41} T_2^7 + 8 T_1^{42} T_2^7 - 4 T_1^{43} T_2^7 + 12 T_1^{44} T_2^7 - 16 T_1^{45} T_2^7 + 12 T_1^{46} T_2^7 + 12 T_1^{47} T_2^7 - 16 T_1^{48} T_2^7 + \\ 12 T_1^{49} T_2^7 - 4 T_1^{50} T_2^7 + T_2^{12} - 4 T_1 T_2^{12} + 8 T_1^2 T_2^{12} - 11 T_1^3 T_2^{12} + 8 T_1^4 T_2^{12} - 4 T_1^5 T_2^{12} + T_2^{13} \Big\}, \text{Knot}[10, 137] \rightarrow \left\{ \frac{(1 - 3T + T^2)^2}{T^2}, \right. \\ \left. - \frac{2(1 - 3T_1 + T_1^2)(1 - 3T_2 + T_2^2)(1 - 3T_1 T_2 + T_1^2 T_2^2)(1 + T_1 + T_2 - 6T_1 T_2 + T_1^2 T_2 + T_1 T_2^2 + T_1^2 T_2^2)}{T_1^3 T_2^3} \right\},$$

$$\text{Knot}[10, 140] \rightarrow \left\{ \frac{(1 - T + T^2)^2}{T^2}, \right.$$

$$-\frac{1}{T_1^2 T_2^2} 4 \left(3 - 4 T_1 + 3 T_1^2 - 4 T_2 + T_1 T_2 + T_1^2 T_2 - 4 T_1^3 T_2 + 3 T_2^2 + T_1 T_2^2 + \right. \\ \left. T_1^3 T_2^2 + 3 T_1^4 T_2^2 - 4 T_1 T_2^3 + T_1^2 T_2^3 + T_1^3 T_2^3 - 4 T_1^4 T_2^3 + 3 T_1^5 T_2^3 - 4 T_1^6 T_2^3 + 3 T_1^7 T_2^3 \right) \Big\},$$

$$\text{Knot}[10, 153] \rightarrow \left\{ \frac{(1 - T + T^3)(1 - T^2 + T^3)}{T^3}, \right.$$

$$\begin{aligned} & - \frac{1}{T_1^6 T_2^6} \left(1 - T_1 - T_1^2 + 3 T_1^3 - T_1^4 - T_1^5 + T_1^6 - T_2 - 2 T_1 T_2 + 5 T_1^2 T_2 - 4 T_1^3 T_2 - 4 T_1^4 T_2 + 5 T_1^5 T_2 - 2 T_1^6 T_2 - T_1^7 T_2 - \right. \\ & T_2^2 + 5 T_1 T_2^2 - 2 T_1^2 T_2^2 - 4 T_1^3 T_2^2 + 10 T_1^4 T_2^2 - 4 T_1^5 T_2^2 - 2 T_1^6 T_2^2 + 5 T_1^7 T_2^2 - T_1^8 T_2^2 + 3 T_2^3 - 4 T_1 T_2^3 - \\ & 4 T_1^2 T_2^3 + 10 T_1^3 T_2^3 - 6 T_1^4 T_2^3 - 6 T_1^5 T_2^3 + 10 T_1^6 T_2^3 - 4 T_1^7 T_2^3 - 4 T_1^8 T_2^3 + 3 T_1^9 T_2^3 - T_2^4 - 4 T_1 T_2^4 + 10 T_1^2 T_2^4 - \\ & 6 T_1^3 T_2^4 - 10 T_1^4 T_2^4 + 18 T_1^5 T_2^4 - 10 T_1^6 T_2^4 - 6 T_1^7 T_2^4 + 10 T_1^8 T_2^4 - 4 T_1^9 T_2^4 - T_1^{10} T_2^4 - T_2^5 + 5 T_1 T_2^5 - \\ & 4 T_1^2 T_2^5 - 6 T_1^3 T_2^5 + 18 T_1^4 T_2^5 - 10 T_1^5 T_2^5 - 10 T_1^6 T_2^5 + 18 T_1^7 T_2^5 - 6 T_1^8 T_2^5 - 4 T_1^9 T_2^5 + 5 T_1^{10} T_2^5 - T_1^{11} T_2^5 + \\ & T_2^6 - 2 T_1 T_2^6 - 2 T_1^2 T_2^6 + 10 T_1^3 T_2^6 - 10 T_1^4 T_2^6 - 10 T_1^5 T_2^6 + 24 T_1^6 T_2^6 - 10 T_1^7 T_2^6 - 10 T_1^8 T_2^6 + 10 T_1^9 T_2^6 - \\ & 2 T_1^{10} T_2^6 - 2 T_1^{11} T_2^6 + T_1^{12} T_2^6 - T_1 T_2^7 + 5 T_1^2 T_2^7 - 4 T_1^3 T_2^7 - 6 T_1^4 T_2^7 + 18 T_1^5 T_2^7 - 10 T_1^6 T_2^7 - 10 T_1^7 T_2^7 + \\ & 18 T_1^8 T_2^7 - 6 T_1^9 T_2^7 - 4 T_1^{10} T_2^7 + 5 T_1^{11} T_2^7 - T_1^{12} T_2^7 - T_1^2 T_2^8 - 4 T_1^3 T_2^8 + 10 T_1^4 T_2^8 - 6 T_1^5 T_2^8 - 10 T_1^6 T_2^8 + \\ & 18 T_1^7 T_2^8 - 10 T_1^8 T_2^8 - 6 T_1^9 T_2^8 + 10 T_1^{10} T_2^8 - 4 T_1^{11} T_2^8 - T_1^{12} T_2^8 + 3 T_1^3 T_2^9 - 4 T_1^4 T_2^9 - 4 T_1^5 T_2^9 + 10 T_1^6 T_2^9 - \\ & 6 T_1^7 T_2^9 - 6 T_1^8 T_2^9 + 10 T_1^9 T_2^9 - 4 T_1^{10} T_2^9 - 4 T_1^{11} T_2^9 + 3 T_1^{12} T_2^9 - T_1^4 T_2^{10} + 5 T_1^5 T_2^{10} - 2 T_1^6 T_2^{10} - 4 T_1^7 T_2^{10} + \\ & 10 T_1^8 T_2^{10} - 4 T_1^9 T_2^{10} - 2 T_1^{10} T_2^{10} + 5 T_1^{11} T_2^{10} - T_1^{12} T_2^{10} - T_1^5 T_2^{11} - 2 T_1^6 T_2^{11} + 5 T_1^7 T_2^{11} - 4 T_1^8 T_2^{11} - 4 T_1^9 T_2^{11} + \\ & 5 T_1^{10} T_2^{11} - 2 T_1^{11} T_2^{11} - T_1^{12} T_2^{11} + T_1^6 T_2^{12} - T_1^7 T_2^{12} - T_1^8 T_2^{12} + 3 T_1^9 T_2^{12} - T_1^{10} T_2^{12} - T_1^{11} T_2^{12} + T_1^{12} T_2^{12} \Big) \Big\}, \end{aligned}$$

$$\text{Knot}[10, 155] \rightarrow \left\{ - \frac{(-1 + T - 2 T^2 + T^3)(-1 + 2 T - T^2 + T^3)}{T^3}, \right.$$

$$\begin{aligned} & - \frac{1}{T_1^4 T_2^4} \left(2 \left(1 - 4 T_1 + 5 T_1^2 - 4 T_1^3 + T_1^4 - 4 T_2 + 11 T_1 T_2 - 3 T_1^2 T_2 - 3 T_1^3 T_2 + 11 T_1^4 T_2 - 4 T_1^5 T_2 + 5 T_2^2 - \right. \right. \\ & 3 T_1 T_2^2 - 26 T_1^2 T_2^2 + 24 T_1^3 T_2^2 - 26 T_1^4 T_2^2 - 3 T_1^5 T_2^2 + 5 T_1^6 T_2^2 - 4 T_2^3 - 3 T_1 T_2^3 + 24 T_1^2 T_2^3 + 4 T_1^3 T_2^3 + \\ & 4 T_1^4 T_2^3 + 24 T_1^5 T_2^3 - 3 T_1^6 T_2^3 - 4 T_1^7 T_2^3 + T_2^4 + 11 T_1 T_2^4 - 26 T_1^2 T_2^4 + 4 T_1^3 T_2^4 - 30 T_1^4 T_2^4 + 4 T_1^5 T_2^4 - \\ & 26 T_1^6 T_2^4 + 11 T_1^7 T_2^4 + T_1^8 T_2^4 - 4 T_1 T_2^5 - 3 T_1^2 T_2^5 + 24 T_1^3 T_2^5 + 4 T_1^4 T_2^5 + 4 T_1^5 T_2^5 + 24 T_1^6 T_2^5 - 3 T_1^7 T_2^5 - \\ & 4 T_1^8 T_2^5 + 5 T_1^2 T_2^6 - 3 T_1^3 T_2^6 - 26 T_1^4 T_2^6 + 24 T_1^5 T_2^6 - 26 T_1^6 T_2^6 - 3 T_1^7 T_2^6 + 5 T_1^8 T_2^6 - 4 T_1^3 T_2^7 + \\ & 11 T_1^4 T_2^7 - 3 T_1^5 T_2^7 - 3 T_1^6 T_2^7 + 11 T_1^7 T_2^7 - 4 T_1^8 T_2^7 + T_1^4 T_2^8 - 4 T_1^5 T_2^8 + 5 T_1^6 T_2^8 - 4 T_1^7 T_2^8 + T_1^8 T_2^8 \Big) \Big\} \end{aligned}$$