



```
In[ ]:= SetDirectory["C:\\drorbn\\AcademicPensieve\\People\\Roukema"];
<< KnotTheory`
```

ParentDirectory: Argument File should be a positive machine-size integer, a nonempty string, or a File specification. 

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ToFileName: String or list of strings expected at position 1 in ToFileName[{File, WikiLink, mathematica}]. 

ToFileName: String or list of strings expected at position 1 in ToFileName[{File, QuantumGroups}]. 

Loading KnotTheory` version of January 20, 2015, 10:42:19.1122.
Read more at <http://katlas.org/wiki/KnotTheory>.

```
In[ ]:= Column[ (# -> Jones[#][q]) & /@ AllKnots[{0, 10}]]
```

$$\text{Knot}[0, 1] \rightarrow 1$$

$$\text{Knot}[3, 1] \rightarrow -\frac{1}{q^4} + \frac{1}{q^3} + \frac{1}{q}$$

$$\text{Knot}[4, 1] \rightarrow 1 + \frac{1}{q^2} - \frac{1}{q} - q + q^2$$

$$\text{Knot}[5, 1] \rightarrow -\frac{1}{q^7} + \frac{1}{q^6} - \frac{1}{q^5} + \frac{1}{q^4} + \frac{1}{q^2}$$

$$\text{Knot}[5, 2] \rightarrow -\frac{1}{q^6} + \frac{1}{q^5} - \frac{1}{q^4} + \frac{2}{q^3} - \frac{1}{q^2} + \frac{1}{q}$$

$$\text{Knot}[6, 1] \rightarrow 2 + \frac{1}{q^4} - \frac{1}{q^3} + \frac{1}{q^2} - \frac{2}{q} - q + q^2$$

$$\text{Knot}[6, 2] \rightarrow -1 + \frac{1}{q^5} - \frac{2}{q^4} + \frac{2}{q^3} - \frac{2}{q^2} + \frac{2}{q} + q$$

$$\text{Knot}[6, 3] \rightarrow 3 - \frac{1}{q^3} + \frac{2}{q^2} - \frac{2}{q} - 2q + 2q^2 - q^3$$

$$\text{Knot}[7, 1] \rightarrow -\frac{1}{q^{10}} + \frac{1}{q^9} - \frac{1}{q^8} + \frac{1}{q^7} - \frac{1}{q^6} + \frac{1}{q^5} + \frac{1}{q^3}$$

$$\text{Knot}[7, 2] \rightarrow -\frac{1}{q^8} + \frac{1}{q^7} - \frac{1}{q^6} + \frac{2}{q^5} - \frac{2}{q^4} + \frac{2}{q^3} - \frac{1}{q^2} + \frac{1}{q}$$

$$\text{Knot}[7, 3] \rightarrow q^2 - q^3 + 2q^4 - 2q^5 + 3q^6 - 2q^7 + q^8 - q^9$$

$$\text{Knot}[7, 4] \rightarrow q - 2q^2 + 3q^3 - 2q^4 + 3q^5 - 2q^6 + q^7 - q^8$$

$$\text{Knot}[7, 5] \rightarrow -\frac{1}{q^9} + \frac{2}{q^8} - \frac{3}{q^7} + \frac{3}{q^6} - \frac{3}{q^5} + \frac{3}{q^4} - \frac{1}{q^3} + \frac{1}{q^2}$$

$$\text{Knot}[7, 6] \rightarrow -2 - \frac{1}{q^6} + \frac{2}{q^5} - \frac{3}{q^4} + \frac{4}{q^3} - \frac{3}{q^2} + \frac{3}{q} + q$$

$$\text{Knot}[7, 7] \rightarrow 4 - \frac{1}{q^3} + \frac{3}{q^2} - \frac{3}{q} - 4q + 3q^2 - 2q^3 + q^4$$

$$\text{Knot}[8, 1] \rightarrow 2 + \frac{1}{q^6} - \frac{1}{q^5} + \frac{1}{q^4} - \frac{2}{q^3} + \frac{2}{q^2} - \frac{2}{q} - q + q^2$$

$$\text{Knot}[8, 2] \rightarrow 1 + \frac{1}{q^8} - \frac{2}{q^7} + \frac{2}{q^6} - \frac{3}{q^5} + \frac{3}{q^4} - \frac{2}{q^3} + \frac{2}{q^2} - \frac{1}{q}$$

$$\text{Knot}[8, 3] \rightarrow 3 + \frac{1}{q^4} - \frac{1}{q^3} + \frac{2}{q^2} - \frac{3}{q} - 3q + 2q^2 - q^3 + q^4$$

$$\text{Knot}[8, 4] \rightarrow -3 + \frac{1}{q^5} - \frac{2}{q^4} + \frac{3}{q^3} - \frac{3}{q^2} + \frac{3}{q} + 2q - q^2 + q^3$$

$$\text{Knot}[8, 5] \rightarrow 1 - q + 3q^2 - 3q^3 + 3q^4 - 4q^5 + 3q^6 - 2q^7 + q^8$$

$$\text{Knot}[8, 6] \rightarrow -1 + \frac{1}{q^7} - \frac{2}{q^6} + \frac{3}{q^5} - \frac{4}{q^4} + \frac{4}{q^3} - \frac{4}{q^2} + \frac{3}{q} + q$$

$$\text{Knot}[8, 7] \rightarrow -2 - \frac{1}{q^2} + \frac{2}{q} + 4q - 4q^2 + 4q^3 - 3q^4 + 2q^5 - q^6$$

$$\text{Knot}[8, 8] \rightarrow 5 - \frac{1}{q^3} + \frac{2}{q^2} - \frac{3}{q} - 4q + 4q^2 - 3q^3 + 2q^4 - q^5$$

$$\text{Knot}[8, 9] \rightarrow 5 + \frac{1}{q^4} - \frac{2}{q^3} + \frac{3}{q^2} - \frac{4}{q} - 4q + 3q^2 - 2q^3 + q^4$$

$$\text{Knot}[8, 10] \rightarrow -3 - \frac{1}{q^2} + \frac{2}{q} + 5q - 4q^2 + 5q^3 - 4q^4 + 2q^5 - q^6$$

$$\text{Knot}[8, 11] \rightarrow -2 + \frac{1}{q^7} - \frac{2}{q^6} + \frac{3}{q^5} - \frac{5}{q^4} + \frac{5}{q^3} - \frac{4}{q^2} + \frac{4}{q} + q$$

$$\begin{aligned}
\text{Knot [8, 12]} &\rightarrow 5 + \frac{1}{q^4} - \frac{2}{q^3} + \frac{4}{q^2} - \frac{5}{q} - 5q + 4q^2 - 2q^3 + q^4 \\
\text{Knot [8, 13]} &\rightarrow 5 - \frac{1}{q^3} + \frac{3}{q^2} - \frac{4}{q} - 5q + 5q^2 - 3q^3 + 2q^4 - q^5 \\
\text{Knot [8, 14]} &\rightarrow -2 + \frac{1}{q^7} - \frac{3}{q^6} + \frac{4}{q^5} - \frac{5}{q^4} + \frac{6}{q^3} - \frac{5}{q^2} + \frac{4}{q} + q \\
\text{Knot [8, 15]} &\rightarrow \frac{1}{q^{10}} - \frac{3}{q^9} + \frac{4}{q^8} - \frac{6}{q^7} + \frac{6}{q^6} - \frac{5}{q^5} + \frac{5}{q^4} - \frac{2}{q^3} + \frac{1}{q^2} \\
\text{Knot [8, 16]} &\rightarrow -4 - \frac{1}{q^6} + \frac{3}{q^5} - \frac{5}{q^4} + \frac{6}{q^3} - \frac{6}{q^2} + \frac{6}{q} + 3q - q^2 \\
\text{Knot [8, 17]} &\rightarrow 7 + \frac{1}{q^4} - \frac{3}{q^3} + \frac{5}{q^2} - \frac{6}{q} - 6q + 5q^2 - 3q^3 + q^4 \\
\text{Knot [8, 18]} &\rightarrow 9 + \frac{1}{q^4} - \frac{4}{q^3} + \frac{6}{q^2} - \frac{7}{q} - 7q + 6q^2 - 4q^3 + q^4 \\
\text{Knot [8, 19]} &\rightarrow q^3 + q^5 - q^8 \\
\text{Knot [8, 20]} &\rightarrow 2 - \frac{1}{q^5} + \frac{1}{q^4} - \frac{1}{q^3} + \frac{2}{q^2} - \frac{1}{q} - q \\
\text{Knot [8, 21]} &\rightarrow \frac{1}{q^7} - \frac{2}{q^6} + \frac{2}{q^5} - \frac{3}{q^4} + \frac{3}{q^3} - \frac{2}{q^2} + \frac{2}{q} \\
\text{Knot [9, 1]} &\rightarrow -\frac{1}{q^{13}} + \frac{1}{q^{12}} - \frac{1}{q^{11}} + \frac{1}{q^{10}} - \frac{1}{q^9} + \frac{1}{q^8} - \frac{1}{q^7} + \frac{1}{q^6} + \frac{1}{q^4} \\
\text{Knot [9, 2]} &\rightarrow -\frac{1}{q^{10}} + \frac{1}{q^9} - \frac{1}{q^8} + \frac{2}{q^7} - \frac{2}{q^6} + \frac{2}{q^5} - \frac{2}{q^4} + \frac{2}{q^3} - \frac{1}{q^2} + \frac{1}{q} \\
\text{Knot [9, 3]} &\rightarrow q^3 - q^4 + 2q^5 - 2q^6 + 3q^7 - 3q^8 + 3q^9 - 2q^{10} + q^{11} - q^{12} \\
\text{Knot [9, 4]} &\rightarrow -\frac{1}{q^{11}} + \frac{1}{q^{10}} - \frac{2}{q^9} + \frac{3}{q^8} - \frac{3}{q^7} + \frac{4}{q^6} - \frac{3}{q^5} + \frac{2}{q^4} - \frac{1}{q^3} + \frac{1}{q^2} \\
\text{Knot [9, 5]} &\rightarrow q - 2q^2 + 3q^3 - 3q^4 + 4q^5 - 3q^6 + 3q^7 - 2q^8 + q^9 - q^{10} \\
\text{Knot [9, 6]} &\rightarrow -\frac{1}{q^{12}} + \frac{2}{q^{11}} - \frac{3}{q^{10}} + \frac{4}{q^9} - \frac{5}{q^8} + \frac{4}{q^7} - \frac{3}{q^6} + \frac{3}{q^5} - \frac{1}{q^4} + \frac{1}{q^3} \\
\text{Knot [9, 7]} &\rightarrow -\frac{1}{q^{11}} + \frac{2}{q^{10}} - \frac{3}{q^9} + \frac{4}{q^8} - \frac{5}{q^7} + \frac{5}{q^6} - \frac{4}{q^5} + \frac{3}{q^4} - \frac{1}{q^3} + \frac{1}{q^2} \\
\text{Knot [9, 8]} &\rightarrow -4 - \frac{1}{q^6} + \frac{2}{q^5} - \frac{3}{q^4} + \frac{5}{q^3} - \frac{5}{q^2} + \frac{5}{q} + 3q - 2q^2 + q^3 \\
\text{Knot [9, 9]} &\rightarrow -\frac{1}{q^{12}} + \frac{2}{q^{11}} - \frac{4}{q^{10}} + \frac{5}{q^9} - \frac{5}{q^8} + \frac{5}{q^7} - \frac{4}{q^6} + \frac{3}{q^5} - \frac{1}{q^4} + \frac{1}{q^3} \\
\text{Knot [9, 10]} &\rightarrow q^2 - 2q^3 + 4q^4 - 5q^5 + 6q^6 - 5q^7 + 5q^8 - 3q^9 + q^{10} - q^{11} \\
\text{Knot [9, 11]} &\rightarrow 1 - 2q + 3q^2 - 4q^3 + 6q^4 - 5q^5 + 5q^6 - 4q^7 + 2q^8 - q^9 \\
\text{Knot [9, 12]} &\rightarrow -2 - \frac{1}{q^8} + \frac{2}{q^7} - \frac{3}{q^6} + \frac{5}{q^5} - \frac{6}{q^4} + \frac{6}{q^3} - \frac{5}{q^2} + \frac{4}{q} + q \\
\text{Knot [9, 13]} &\rightarrow q^2 - 2q^3 + 4q^4 - 5q^5 + 7q^6 - 6q^7 + 5q^8 - 4q^9 + 2q^{10} - q^{11} \\
\text{Knot [9, 14]} &\rightarrow 6 - \frac{1}{q^3} + \frac{3}{q^2} - \frac{4}{q} - 6q + 6q^2 - 5q^3 + 3q^4 - 2q^5 + q^6 \\
\text{Knot [9, 15]} &\rightarrow -2 + \frac{1}{q} + 4q - 6q^2 + 7q^3 - 6q^4 + 6q^5 - 4q^6 + 2q^7 - q^8 \\
\text{Knot [9, 16]} &\rightarrow q^3 - q^4 + 4q^5 - 5q^6 + 6q^7 - 7q^8 + 6q^9 - 5q^{10} + 3q^{11} - q^{12} \\
\text{Knot [9, 17]} &\rightarrow -5 - \frac{1}{q^6} + \frac{3}{q^5} - \frac{4}{q^4} + \frac{6}{q^3} - \frac{7}{q^2} + \frac{6}{q} + 4q - 2q^2 + q^3 \\
\text{Knot [9, 18]} &\rightarrow -\frac{1}{q^{11}} + \frac{2}{q^{10}} - \frac{4}{q^9} + \frac{6}{q^8} - \frac{7}{q^7} + \frac{7}{q^6} - \frac{6}{q^5} + \frac{5}{q^4} - \frac{2}{q^3} + \frac{1}{q^2} \\
\text{Knot [9, 19]} &\rightarrow 7 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{4}{q^3} + \frac{6}{q^2} - \frac{7}{q} - 6q + 4q^2 - 2q^3 + q^4 \\
\text{Knot [9, 20]} &\rightarrow 1 - \frac{1}{q^9} + \frac{3}{q^8} - \frac{5}{q^7} + \frac{6}{q^6} - \frac{7}{q^5} + \frac{7}{q^4} - \frac{5}{q^3} + \frac{4}{q^2} - \frac{2}{q} \\
\text{Knot [9, 21]} &\rightarrow -3 + \frac{1}{q} + 5q - 6q^2 + 8q^3 - 7q^4 + 6q^5 - 4q^6 + 2q^7 - q^8 \\
\text{Knot [9, 22]} &\rightarrow -6 + \frac{1}{q^3} - \frac{2}{q^2} + \frac{4}{q} + 7q - 7q^2 + 7q^3 - 5q^4 + 3q^5 - q^6 \\
\text{Knot [9, 23]} &\rightarrow -\frac{1}{q^{11}} + \frac{3}{q^{10}} - \frac{5}{q^9} + \frac{6}{q^8} - \frac{8}{q^7} + \frac{8}{q^6} - \frac{6}{q^5} + \frac{5}{q^4} - \frac{2}{q^3} + \frac{1}{q^2} \\
\text{Knot [9, 24]} &\rightarrow 8 - \frac{1}{q^5} + \frac{2}{q^4} - \frac{4}{q^3} + \frac{7}{q^2} - \frac{7}{q} - 7q + 5q^2 - 3q^3 + q^4 \\
\text{Knot [9, 25]} &\rightarrow -2 - \frac{1}{q^8} + \frac{3}{q^7} - \frac{5}{q^6} + \frac{7}{q^5} - \frac{8}{q^4} + \frac{8}{q^3} - \frac{7}{q^2} + \frac{5}{q} + q \\
\text{Knot [9, 26]} &\rightarrow -4 - \frac{1}{q^2} + \frac{3}{q} + 7q - 8q^2 + 8q^3 - 7q^4 + 5q^5 - 3q^6 + q^7
\end{aligned}$$

$$\begin{aligned}
\text{Knot [9, 27]} &\rightarrow 9 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{5}{q^3} + \frac{7}{q^2} - \frac{8}{q} - 7q + 5q^2 - 3q^3 + q^4 \\
\text{Knot [9, 28]} &\rightarrow -5 + \frac{1}{q^7} - \frac{3}{q^6} + \frac{5}{q^5} - \frac{8}{q^4} + \frac{9}{q^3} - \frac{8}{q^2} + \frac{8}{q} + 3q - q^2 \\
\text{Knot [9, 29]} &\rightarrow -7 - \frac{1}{q^6} + \frac{3}{q^5} - \frac{6}{q^4} + \frac{8}{q^3} - \frac{8}{q^2} + \frac{9}{q} + 5q - 3q^2 + q^3 \\
\text{Knot [9, 30]} &\rightarrow 9 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{5}{q^3} + \frac{8}{q^2} - \frac{9}{q} - 8q + 6q^2 - 3q^3 + q^4 \\
\text{Knot [9, 31]} &\rightarrow -5 + \frac{1}{q^7} - \frac{4}{q^6} + \frac{6}{q^5} - \frac{8}{q^4} + \frac{10}{q^3} - \frac{9}{q^2} + \frac{8}{q} + 3q - q^2 \\
\text{Knot [9, 32]} &\rightarrow -6 - \frac{1}{q^2} + \frac{4}{q} + 9q - 10q^2 + 10q^3 - 9q^4 + 6q^5 - 3q^6 + q^7 \\
\text{Knot [9, 33]} &\rightarrow 11 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{6}{q^3} + \frac{9}{q^2} - \frac{10}{q} - 9q + 7q^2 - 4q^3 + q^4 \\
\text{Knot [9, 34]} &\rightarrow 12 - \frac{1}{q^5} + \frac{4}{q^4} - \frac{7}{q^3} + \frac{10}{q^2} - \frac{12}{q} - 10q + 8q^2 - 4q^3 + q^4 \\
\text{Knot [9, 35]} &\rightarrow -\frac{1}{q^{10}} + \frac{1}{q^9} - \frac{3}{q^8} + \frac{4}{q^7} - \frac{3}{q^6} + \frac{5}{q^5} - \frac{4}{q^4} + \frac{3}{q^3} - \frac{2}{q^2} + \frac{1}{q} \\
\text{Knot [9, 36]} &\rightarrow 1 - 2q + 4q^2 - 5q^3 + 6q^4 - 6q^5 + 6q^6 - 4q^7 + 2q^8 - q^9 \\
\text{Knot [9, 37]} &\rightarrow 7 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{4}{q^3} + \frac{7}{q^2} - \frac{8}{q} - 7q + 5q^2 - 2q^3 + q^4 \\
\text{Knot [9, 38]} &\rightarrow -\frac{1}{q^{11}} + \frac{3}{q^{10}} - \frac{6}{q^9} + \frac{8}{q^8} - \frac{10}{q^7} + \frac{10}{q^6} - \frac{8}{q^5} + \frac{7}{q^4} - \frac{3}{q^3} + \frac{1}{q^2} \\
\text{Knot [9, 39]} &\rightarrow -3 + \frac{1}{q} + 6q - 8q^2 + 10q^3 - 9q^4 + 8q^5 - 6q^6 + 3q^7 - q^8 \\
\text{Knot [9, 40]} &\rightarrow -8 + \frac{1}{q^7} - \frac{4}{q^6} + \frac{8}{q^5} - \frac{11}{q^4} + \frac{13}{q^3} - \frac{13}{q^2} + \frac{11}{q} + 5q - q^2 \\
\text{Knot [9, 41]} &\rightarrow 8 + \frac{1}{q^6} - \frac{3}{q^5} + \frac{5}{q^4} - \frac{7}{q^3} + \frac{8}{q^2} - \frac{8}{q} - 5q + 3q^2 - q^3 \\
\text{Knot [9, 42]} &\rightarrow -1 + \frac{1}{q^3} - \frac{1}{q^2} + \frac{1}{q} + q - q^2 + q^3 \\
\text{Knot [9, 43]} &\rightarrow 1 - q + 2q^2 - 2q^3 + 2q^4 - 2q^5 + 2q^6 - q^7 \\
\text{Knot [9, 44]} &\rightarrow 3 - \frac{1}{q^5} + \frac{2}{q^4} - \frac{2}{q^3} + \frac{3}{q^2} - \frac{3}{q} - 2q + q^2 \\
\text{Knot [9, 45]} &\rightarrow -\frac{1}{q^8} + \frac{2}{q^7} - \frac{3}{q^6} + \frac{4}{q^5} - \frac{4}{q^4} + \frac{4}{q^3} - \frac{3}{q^2} + \frac{2}{q} \\
\text{Knot [9, 46]} &\rightarrow 2 + \frac{1}{q^6} - \frac{1}{q^5} + \frac{1}{q^4} - \frac{2}{q^3} + \frac{1}{q^2} - \frac{1}{q} \\
\text{Knot [9, 47]} &\rightarrow -3 - \frac{1}{q^2} + \frac{3}{q} + 5q - 5q^2 + 4q^3 - 4q^4 + 2q^5 \\
\text{Knot [9, 48]} &\rightarrow -3 + \frac{1}{q} + 4q - 4q^2 + 6q^3 - 4q^4 + 3q^5 - 2q^6 \\
\text{Knot [9, 49]} &\rightarrow q^2 - 2q^3 + 4q^4 - 4q^5 + 5q^6 - 4q^7 + 3q^8 - 2q^9 \\
\text{Knot [10, 1]} &\rightarrow 2 + \frac{1}{q^8} - \frac{1}{q^7} + \frac{1}{q^6} - \frac{2}{q^5} + \frac{2}{q^4} - \frac{2}{q^3} + \frac{2}{q^2} - \frac{2}{q} - q + q^2 \\
\text{Knot [10, 2]} &\rightarrow \frac{1}{q^{11}} - \frac{2}{q^{10}} + \frac{2}{q^9} - \frac{3}{q^8} + \frac{3}{q^7} - \frac{3}{q^6} + \frac{3}{q^5} - \frac{2}{q^4} + \frac{2}{q^3} - \frac{1}{q^2} + \frac{1}{q} \\
\text{Knot [10, 3]} &\rightarrow 4 + \frac{1}{q^6} - \frac{1}{q^5} + \frac{2}{q^4} - \frac{3}{q^3} + \frac{3}{q^2} - \frac{4}{q} - 3q + 2q^2 - q^3 + q^4 \\
\text{Knot [10, 4]} &\rightarrow -4 + \frac{1}{q^5} - \frac{2}{q^4} + \frac{3}{q^3} - \frac{3}{q^2} + \frac{4}{q} + 3q - 3q^2 + 2q^3 - q^4 + q^5 \\
\text{Knot [10, 5]} &\rightarrow 2 - \frac{1}{q} - 2q + 4q^2 - 4q^3 + 5q^4 - 5q^5 + 4q^6 - 3q^7 + 2q^8 - q^9 \\
\text{Knot [10, 6]} &\rightarrow 1 + \frac{1}{q^{10}} - \frac{2}{q^9} + \frac{3}{q^8} - \frac{5}{q^7} + \frac{6}{q^6} - \frac{6}{q^5} + \frac{5}{q^4} - \frac{4}{q^3} + \frac{3}{q^2} - \frac{1}{q} \\
\text{Knot [10, 7]} &\rightarrow -2 + \frac{1}{q^9} - \frac{2}{q^8} + \frac{3}{q^7} - \frac{5}{q^6} + \frac{6}{q^5} - \frac{7}{q^4} + \frac{7}{q^3} - \frac{5}{q^2} + \frac{4}{q} + q \\
\text{Knot [10, 8]} &\rightarrow 2 + \frac{1}{q^8} - \frac{2}{q^7} + \frac{3}{q^6} - \frac{4}{q^5} + \frac{4}{q^4} - \frac{4}{q^3} + \frac{4}{q^2} - \frac{3}{q} - q + q^2 \\
\text{Knot [10, 9]} &\rightarrow -4 + \frac{1}{q^3} - \frac{2}{q^2} + \frac{3}{q} + 6q - 6q^2 + 6q^3 - 5q^4 + 3q^5 - 2q^6 + q^7 \\
\text{Knot [10, 10]} &\rightarrow 6 - \frac{1}{q^3} + \frac{3}{q^2} - \frac{4}{q} - 7q + 7q^2 - 6q^3 + 5q^4 - 3q^5 + 2q^6 - q^7 \\
\text{Knot [10, 11]} &\rightarrow -5 + \frac{1}{q^7} - \frac{2}{q^6} + \frac{4}{q^5} - \frac{6}{q^4} + \frac{7}{q^3} - \frac{7}{q^2} + \frac{6}{q} + 3q - q^2 + q^3 \\
\text{Knot [10, 12]} &\rightarrow -3 - \frac{1}{q^2} + \frac{2}{q} + 6q - 7q^2 + 8q^3 - 7q^4 + 6q^5 - 4q^6 + 2q^7 - q^8
\end{aligned}$$

$$\text{Knot [10, 13]} \rightarrow 8 + \frac{1}{q^6} - \frac{2}{q^5} + \frac{4}{q^4} - \frac{6}{q^3} + \frac{8}{q^2} - \frac{9}{q} - 7q + 5q^2 - 2q^3 + q^4$$

$$\text{Knot [10, 14]} \rightarrow 1 + \frac{1}{q^{10}} - \frac{3}{q^9} + \frac{5}{q^8} - \frac{8}{q^7} + \frac{9}{q^6} - \frac{9}{q^5} + \frac{9}{q^4} - \frac{6}{q^3} + \frac{4}{q^2} - \frac{2}{q}$$

$$\text{Knot [10, 15]} \rightarrow -6 - \frac{1}{q^4} + \frac{2}{q^3} - \frac{3}{q^2} + \frac{5}{q} + 7q - 6q^2 + 6q^3 - 4q^4 + 2q^5 - q^6$$

$$\text{Knot [10, 16]} \rightarrow -5 + \frac{1}{q^3} - \frac{2}{q^2} + \frac{4}{q} + 7q - 8q^2 + 7q^3 - 6q^4 + 4q^5 - 2q^6 + q^7$$

$$\text{Knot [10, 17]} \rightarrow 7 - \frac{1}{q^5} + \frac{2}{q^4} - \frac{3}{q^3} + \frac{5}{q^2} - \frac{6}{q} - 6q + 5q^2 - 3q^3 + 2q^4 - q^5$$

$$\text{Knot [10, 18]} \rightarrow -6 + \frac{1}{q^7} - \frac{3}{q^6} + \frac{5}{q^5} - \frac{7}{q^4} + \frac{9}{q^3} - \frac{9}{q^2} + \frac{8}{q} + 4q - 2q^2 + q^3$$

$$\text{Knot [10, 19]} \rightarrow -7 - \frac{1}{q^6} + \frac{3}{q^5} - \frac{5}{q^4} + \frac{7}{q^3} - \frac{8}{q^2} + \frac{8}{q} + 6q - 3q^2 + 2q^3 - q^4$$

$$\text{Knot [10, 20]} \rightarrow -1 + \frac{1}{q^9} - \frac{2}{q^8} + \frac{3}{q^7} - \frac{4}{q^6} + \frac{5}{q^5} - \frac{6}{q^4} + \frac{5}{q^3} - \frac{4}{q^2} + \frac{3}{q} + q$$

$$\text{Knot [10, 21]} \rightarrow 1 + \frac{1}{q^{10}} - \frac{2}{q^9} + \frac{3}{q^8} - \frac{6}{q^7} + \frac{7}{q^6} - \frac{7}{q^5} + \frac{7}{q^4} - \frac{5}{q^3} + \frac{4}{q^2} - \frac{2}{q}$$

$$\text{Knot [10, 22]} \rightarrow 8 + \frac{1}{q^4} - \frac{2}{q^3} + \frac{4}{q^2} - \frac{6}{q} - 8q + 7q^2 - 6q^3 + 4q^4 - 2q^5 + q^6$$

$$\text{Knot [10, 23]} \rightarrow -5 - \frac{1}{q^2} + \frac{3}{q} + 8q - 9q^2 + 10q^3 - 9q^4 + 7q^5 - 4q^6 + 2q^7 - q^8$$

$$\text{Knot [10, 24]} \rightarrow -2 + \frac{1}{q^9} - \frac{2}{q^8} + \frac{4}{q^7} - \frac{7}{q^6} + \frac{8}{q^5} - \frac{9}{q^4} + \frac{9}{q^3} - \frac{7}{q^2} + \frac{5}{q} + q$$

$$\text{Knot [10, 25]} \rightarrow 1 + \frac{1}{q^{10}} - \frac{3}{q^9} + \frac{6}{q^8} - \frac{9}{q^7} + \frac{10}{q^6} - \frac{11}{q^5} + \frac{10}{q^4} - \frac{7}{q^3} + \frac{5}{q^2} - \frac{2}{q}$$

$$\text{Knot [10, 26]} \rightarrow 10 + \frac{1}{q^4} - \frac{3}{q^3} + \frac{6}{q^2} - \frac{8}{q} - 10q + 9q^2 - 7q^3 + 4q^4 - 2q^5 + q^6$$

$$\text{Knot [10, 27]} \rightarrow -5 - \frac{1}{q^8} + \frac{3}{q^7} - \frac{6}{q^6} + \frac{9}{q^5} - \frac{11}{q^4} + \frac{12}{q^3} - \frac{11}{q^2} + \frac{9}{q} + 3q - q^2$$

$$\text{Knot [10, 28]} \rightarrow 7 - \frac{1}{q^3} + \frac{3}{q^2} - \frac{5}{q} - 8q + 9q^2 - 7q^3 + 6q^4 - 4q^5 + 2q^6 - q^7$$

$$\text{Knot [10, 29]} \rightarrow -7 + \frac{1}{q^7} - \frac{3}{q^6} + \frac{6}{q^5} - \frac{8}{q^4} + \frac{10}{q^3} - \frac{11}{q^2} + \frac{9}{q} + 5q - 2q^2 + q^3$$

$$\text{Knot [10, 30]} \rightarrow -3 + \frac{1}{q^9} - \frac{3}{q^8} + \frac{5}{q^7} - \frac{8}{q^6} + \frac{10}{q^5} - \frac{11}{q^4} + \frac{11}{q^3} - \frac{8}{q^2} + \frac{6}{q} + q$$

$$\text{Knot [10, 31]} \rightarrow 10 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{5}{q^3} + \frac{7}{q^2} - \frac{9}{q} - 8q + 7q^2 - 4q^3 + 2q^4 - q^5$$

$$\text{Knot [10, 32]} \rightarrow 11 + \frac{1}{q^6} - \frac{3}{q^5} + \frac{5}{q^4} - \frac{8}{q^3} + \frac{11}{q^2} - \frac{11}{q} - 9q + 6q^2 - 3q^3 + q^4$$

$$\text{Knot [10, 33]} \rightarrow 11 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{5}{q^3} + \frac{8}{q^2} - \frac{10}{q} - 10q + 8q^2 - 5q^3 + 3q^4 - q^5$$

$$\text{Knot [10, 34]} \rightarrow 5 - \frac{1}{q^3} + \frac{2}{q^2} - \frac{3}{q} - 5q + 6q^2 - 5q^3 + 4q^4 - 3q^5 + 2q^6 - q^7$$

$$\text{Knot [10, 35]} \rightarrow 8 + \frac{1}{q^4} - \frac{2}{q^3} + \frac{4}{q^2} - \frac{6}{q} - 8q + 7q^2 - 6q^3 + 4q^4 - 2q^5 + q^6$$

$$\text{Knot [10, 36]} \rightarrow -2 + \frac{1}{q^9} - \frac{3}{q^8} + \frac{4}{q^7} - \frac{6}{q^6} + \frac{8}{q^5} - \frac{8}{q^4} + \frac{8}{q^3} - \frac{6}{q^2} + \frac{4}{q} + q$$

$$\text{Knot [10, 37]} \rightarrow 9 - \frac{1}{q^5} + \frac{2}{q^4} - \frac{4}{q^3} + \frac{7}{q^2} - \frac{8}{q} - 8q + 7q^2 - 4q^3 + 2q^4 - q^5$$

$$\text{Knot [10, 38]} \rightarrow -2 + \frac{1}{q^9} - \frac{3}{q^8} + \frac{5}{q^7} - \frac{7}{q^6} + \frac{9}{q^5} - \frac{10}{q^4} + \frac{9}{q^3} - \frac{7}{q^2} + \frac{5}{q} + q$$

$$\text{Knot [10, 39]} \rightarrow 1 + \frac{1}{q^{10}} - \frac{3}{q^9} + \frac{5}{q^8} - \frac{8}{q^7} + \frac{10}{q^6} - \frac{10}{q^5} + \frac{9}{q^4} - \frac{7}{q^3} + \frac{5}{q^2} - \frac{2}{q}$$

$$\text{Out[*]= Knot [10, 40]} \rightarrow -6 - \frac{1}{q^2} + \frac{3}{q} + 10q - 11q^2 + 13q^3 - 12q^4 + 9q^5 - 6q^6 + 3q^7 - q^8$$

$$\text{Knot [10, 41]} \rightarrow -8 + \frac{1}{q^7} - \frac{3}{q^6} + \frac{6}{q^5} - \frac{9}{q^4} + \frac{11}{q^3} - \frac{12}{q^2} + \frac{11}{q} + 6q - 3q^2 + q^3$$

$$\text{Knot [10, 42]} \rightarrow 14 - \frac{1}{q^5} + \frac{4}{q^4} - \frac{7}{q^3} + \frac{10}{q^2} - \frac{13}{q} - 12q + 10q^2 - 6q^3 + 3q^4 - q^5$$

$$\text{Knot [10, 43]} \rightarrow 13 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{6}{q^3} + \frac{9}{q^2} - \frac{11}{q} - 11q + 9q^2 - 6q^3 + 3q^4 - q^5$$

$$\text{Knot [10, 44]} \rightarrow -9 + \frac{1}{q^7} - \frac{4}{q^6} + \frac{7}{q^5} - \frac{10}{q^4} + \frac{13}{q^3} - \frac{13}{q^2} + \frac{12}{q} + 6q - 3q^2 + q^3$$

$$\text{Knot [10, 45]} \rightarrow 15 - \frac{1}{q^5} + \frac{4}{q^4} - \frac{7}{q^3} + \frac{11}{q^2} - \frac{14}{q} - 14q + 11q^2 - 7q^3 + 4q^4 - q^5$$

$$\text{Knot [10, 46]} \rightarrow q - q^2 + 3q^3 - 3q^4 + 4q^5 - 5q^6 + 4q^7 - 4q^8 + 3q^9 - 2q^{10} + q^{11}$$

$$\begin{aligned}
\text{Knot [10, 47]} &\rightarrow 2 - \frac{1}{q} - 3q + 5q^2 - 5q^3 + 7q^4 - 6q^5 + 5q^6 - 4q^7 + 2q^8 - q^9 \\
\text{Knot [10, 48]} &\rightarrow 9 - \frac{1}{q^5} + \frac{2}{q^4} - \frac{4}{q^3} + \frac{6}{q^2} - \frac{7}{q} - 7q + 6q^2 - 4q^3 + 2q^4 - q^5 \\
\text{Knot [10, 49]} &\rightarrow \frac{1}{q^{13}} - \frac{3}{q^{12}} + \frac{5}{q^{11}} - \frac{8}{q^{10}} + \frac{9}{q^9} - \frac{10}{q^8} + \frac{9}{q^7} - \frac{6}{q^6} + \frac{5}{q^5} - \frac{2}{q^4} + \frac{1}{q^3} \\
\text{Knot [10, 50]} &\rightarrow 1 - 2q + 5q^2 - 6q^3 + 8q^4 - 9q^5 + 8q^6 - 7q^7 + 4q^8 - 2q^9 + q^{10} \\
\text{Knot [10, 51]} &\rightarrow -6 - \frac{1}{q^2} + \frac{3}{q} + 9q - 10q^2 + 12q^3 - 10q^4 + 8q^5 - 5q^6 + 2q^7 - q^8 \\
\text{Knot [10, 52]} &\rightarrow -8 - \frac{1}{q^4} + \frac{2}{q^3} - \frac{4}{q^2} + \frac{7}{q} + 10q - 9q^2 + 8q^3 - 6q^4 + 3q^5 - q^6 \\
\text{Knot [10, 53]} &\rightarrow \frac{1}{q^{12}} - \frac{3}{q^{11}} + \frac{5}{q^{10}} - \frac{9}{q^9} + \frac{11}{q^8} - \frac{12}{q^7} + \frac{12}{q^6} - \frac{9}{q^5} + \frac{7}{q^4} - \frac{3}{q^3} + \frac{1}{q^2} \\
\text{Knot [10, 54]} &\rightarrow -6 - \frac{1}{q^4} + \frac{2}{q^3} - \frac{4}{q^2} + \frac{6}{q} + 8q - 7q^2 + 6q^3 - 4q^4 + 2q^5 - q^6 \\
\text{Knot [10, 55]} &\rightarrow \frac{1}{q^{12}} - \frac{3}{q^{11}} + \frac{5}{q^{10}} - \frac{8}{q^9} + \frac{9}{q^8} - \frac{10}{q^7} + \frac{10}{q^6} - \frac{7}{q^5} + \frac{5}{q^4} - \frac{2}{q^3} + \frac{1}{q^2} \\
\text{Knot [10, 56]} &\rightarrow 1 - 2q + 5q^2 - 7q^3 + 10q^4 - 11q^5 + 10q^6 - 9q^7 + 6q^8 - 3q^9 + q^{10} \\
\text{Knot [10, 57]} &\rightarrow -6 - \frac{1}{q^2} + \frac{3}{q} + 10q - 12q^2 + 14q^3 - 12q^4 + 10q^5 - 7q^6 + 3q^7 - q^8 \\
\text{Knot [10, 58]} &\rightarrow 10 + \frac{1}{q^6} - \frac{3}{q^5} + \frac{6}{q^4} - \frac{8}{q^3} + \frac{10}{q^2} - \frac{11}{q} - 8q + 5q^2 - 2q^3 + q^4 \\
\text{Knot [10, 59]} &\rightarrow -9 + \frac{1}{q^3} - \frac{3}{q^2} + \frac{6}{q} + 12q - 12q^2 + 12q^3 - 10q^4 + 6q^5 - 3q^6 + q^7 \\
\text{Knot [10, 60]} &\rightarrow 14 + \frac{1}{q^6} - \frac{3}{q^5} + \frac{6}{q^4} - \frac{10}{q^3} + \frac{13}{q^2} - \frac{14}{q} - 11q + 8q^2 - 4q^3 + q^4 \\
\text{Knot [10, 61]} &\rightarrow 3 + \frac{1}{q^2} - \frac{1}{q} - 4q + 4q^2 - 5q^3 + 5q^4 - 4q^5 + 3q^6 - 2q^7 + q^8 \\
\text{Knot [10, 62]} &\rightarrow 2 - \frac{1}{q} - 3q + 6q^2 - 6q^3 + 7q^4 - 7q^5 + 6q^6 - 4q^7 + 2q^8 - q^9 \\
\text{Knot [10, 63]} &\rightarrow \frac{1}{q^{12}} - \frac{3}{q^{11}} + \frac{4}{q^{10}} - \frac{7}{q^9} + \frac{9}{q^8} - \frac{9}{q^7} + \frac{9}{q^6} - \frac{7}{q^5} + \frac{5}{q^4} - \frac{2}{q^3} + \frac{1}{q^2} \\
\text{Knot [10, 64]} &\rightarrow -6 + \frac{1}{q^3} - \frac{2}{q^2} + \frac{4}{q} + 8q - 8q^2 + 8q^3 - 7q^4 + 4q^5 - 2q^6 + q^7 \\
\text{Knot [10, 65]} &\rightarrow -5 - \frac{1}{q^2} + \frac{3}{q} + 8q - 10q^2 + 11q^3 - 9q^4 + 8q^5 - 5q^6 + 2q^7 - q^8 \\
\text{Knot [10, 66]} &\rightarrow \frac{1}{q^{13}} - \frac{4}{q^{12}} + \frac{7}{q^{11}} - \frac{10}{q^{10}} + \frac{12}{q^9} - \frac{13}{q^8} + \frac{11}{q^7} - \frac{8}{q^6} + \frac{6}{q^5} - \frac{2}{q^4} + \frac{1}{q^3} \\
\text{Knot [10, 67]} &\rightarrow -2 + \frac{1}{q^9} - \frac{3}{q^8} + \frac{5}{q^7} - \frac{8}{q^6} + \frac{10}{q^5} - \frac{10}{q^4} + \frac{10}{q^3} - \frac{8}{q^2} + \frac{5}{q} + q \\
\text{Knot [10, 68]} &\rightarrow 8 - \frac{1}{q^7} + \frac{2}{q^6} - \frac{4}{q^5} + \frac{7}{q^4} - \frac{8}{q^3} + \frac{9}{q^2} - \frac{9}{q} - 5q + 3q^2 - q^3 \\
\text{Knot [10, 69]} &\rightarrow -7 - \frac{1}{q^2} + \frac{4}{q} + 11q - 14q^2 + 15q^3 - 13q^4 + 11q^5 - 7q^6 + 3q^7 - q^8 \\
\text{Knot [10, 70]} &\rightarrow -8 + \frac{1}{q^3} - \frac{2}{q^2} + \frac{5}{q} + 10q - 11q^2 + 11q^3 - 9q^4 + 6q^5 - 3q^6 + q^7 \\
\text{Knot [10, 71]} &\rightarrow 13 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{6}{q^3} + \frac{10}{q^2} - \frac{12}{q} - 12q + 10q^2 - 6q^3 + 3q^4 - q^5 \\
\text{Knot [10, 72]} &\rightarrow 1 - 2q + 5q^2 - 8q^3 + 11q^4 - 12q^5 + 12q^6 - 10q^7 + 7q^8 - 4q^9 + q^{10} \\
\text{Knot [10, 73]} &\rightarrow -7 - \frac{1}{q^8} + \frac{3}{q^7} - \frac{6}{q^6} + \frac{10}{q^5} - \frac{13}{q^4} + \frac{14}{q^3} - \frac{13}{q^2} + \frac{11}{q} + 4q - q^2 \\
\text{Knot [10, 74]} &\rightarrow -3 + \frac{1}{q^9} - \frac{2}{q^8} + \frac{4}{q^7} - \frac{8}{q^6} + \frac{9}{q^5} - \frac{10}{q^4} + \frac{11}{q^3} - \frac{8}{q^2} + \frac{6}{q} + q \\
\text{Knot [10, 75]} &\rightarrow 14 + \frac{1}{q^4} - \frac{4}{q^3} + \frac{7}{q^2} - \frac{10}{q} - 13q + 12q^2 - 10q^3 + 6q^4 - 3q^5 + q^6 \\
\text{Knot [10, 76]} &\rightarrow 1 - q + 4q^2 - 6q^3 + 8q^4 - 10q^5 + 9q^6 - 8q^7 + 6q^8 - 3q^9 + q^{10} \\
\text{Knot [10, 77]} &\rightarrow -4 - \frac{1}{q^2} + \frac{2}{q} + 8q - 9q^2 + 11q^3 - 10q^4 + 8q^5 - 6q^6 + 3q^7 - q^8 \\
\text{Knot [10, 78]} &\rightarrow 1 + \frac{1}{q^{10}} - \frac{3}{q^9} + \frac{5}{q^8} - \frac{9}{q^7} + \frac{11}{q^6} - \frac{11}{q^5} + \frac{11}{q^4} - \frac{8}{q^3} + \frac{6}{q^2} - \frac{3}{q} \\
\text{Knot [10, 79]} &\rightarrow 11 - \frac{1}{q^5} + \frac{2}{q^4} - \frac{5}{q^3} + \frac{8}{q^2} - \frac{9}{q} - 9q + 8q^2 - 5q^3 + 2q^4 - q^5 \\
\text{Knot [10, 80]} &\rightarrow \frac{1}{q^{13}} - \frac{3}{q^{12}} + \frac{6}{q^{11}} - \frac{10}{q^{10}} + \frac{11}{q^9} - \frac{12}{q^8} + \frac{11}{q^7} - \frac{8}{q^6} + \frac{6}{q^5} - \frac{2}{q^4} + \frac{1}{q^3} \\
\text{Knot [10, 81]} &\rightarrow 15 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{7}{q^3} + \frac{11}{q^2} - \frac{13}{q} - 13q + 11q^2 - 7q^3 + 3q^4 - q^5
\end{aligned}$$

$$\begin{aligned}
\text{Knot [10, 82]} &\rightarrow -7 + \frac{1}{q^7} - \frac{3}{q^6} + \frac{5}{q^5} - \frac{8}{q^4} + \frac{10}{q^3} - \frac{10}{q^2} + \frac{10}{q} + 5q - 3q^2 + q^3 \\
\text{Knot [10, 83]} &\rightarrow -7 - \frac{1}{q^2} + \frac{4}{q} + 11q - 13q^2 + 14q^3 - 13q^4 + 10q^5 - 6q^6 + 3q^7 - q^8 \\
\text{Knot [10, 84]} &\rightarrow -6 - \frac{1}{q^2} + \frac{3}{q} + 11q - 13q^2 + 15q^3 - 14q^4 + 11q^5 - 8q^6 + 4q^7 - q^8 \\
\text{Knot [10, 85]} &\rightarrow 3 - \frac{1}{q^9} + \frac{3}{q^8} - \frac{5}{q^7} + \frac{7}{q^6} - \frac{9}{q^5} + \frac{9}{q^4} - \frac{8}{q^3} + \frac{7}{q^2} - \frac{4}{q} - q \\
\text{Knot [10, 86]} &\rightarrow 14 + \frac{1}{q^4} - \frac{4}{q^3} + \frac{8}{q^2} - \frac{11}{q} - 14q + 13q^2 - 10q^3 + 6q^4 - 3q^5 + q^6 \\
\text{Knot [10, 87]} &\rightarrow 13 + \frac{1}{q^4} - \frac{3}{q^3} + \frac{6}{q^2} - \frac{10}{q} - 13q + 13q^2 - 10q^3 + 7q^4 - 4q^5 + q^6 \\
\text{Knot [10, 88]} &\rightarrow 17 - \frac{1}{q^5} + \frac{4}{q^4} - \frac{8}{q^3} + \frac{13}{q^2} - \frac{16}{q} - 16q + 13q^2 - 8q^3 + 4q^4 - q^5 \\
\text{Knot [10, 89]} &\rightarrow -9 - \frac{1}{q^8} + \frac{3}{q^7} - \frac{7}{q^6} + \frac{12}{q^5} - \frac{15}{q^4} + \frac{17}{q^3} - \frac{16}{q^2} + \frac{13}{q} + 5q - q^2 \\
\text{Knot [10, 90]} &\rightarrow 12 + \frac{1}{q^4} - \frac{3}{q^3} + \frac{7}{q^2} - \frac{10}{q} - 13q + 12q^2 - 9q^3 + 6q^4 - 3q^5 + q^6 \\
\text{Knot [10, 91]} &\rightarrow 13 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{6}{q^3} + \frac{9}{q^2} - \frac{11}{q} - 11q + 9q^2 - 6q^3 + 3q^4 - q^5 \\
\text{Knot [10, 92]} &\rightarrow 1 - 3q + 7q^2 - 10q^3 + 14q^4 - 15q^5 + 14q^6 - 12q^7 + 8q^8 - 4q^9 + q^{10} \\
\text{Knot [10, 93]} &\rightarrow -10 - \frac{1}{q^6} + \frac{3}{q^5} - \frac{6}{q^4} + \frac{9}{q^3} - \frac{10}{q^2} + \frac{11}{q} + 8q - 5q^2 + 3q^3 - q^4 \\
\text{Knot [10, 94]} &\rightarrow -8 + \frac{1}{q^3} - \frac{3}{q^2} + \frac{6}{q} + 11q - 12q^2 + 11q^3 - 9q^4 + 6q^5 - 3q^6 + q^7 \\
\text{Knot [10, 95]} &\rightarrow -8 - \frac{1}{q^2} + \frac{4}{q} + 12q - 14q^2 + 16q^3 - 14q^4 + 11q^5 - 7q^6 + 3q^7 - q^8 \\
\text{Knot [10, 96]} &\rightarrow 15 + \frac{1}{q^4} - \frac{4}{q^3} + \frac{9}{q^2} - \frac{12}{q} - 16q + 14q^2 - 11q^3 + 7q^4 - 3q^5 + q^6 \\
\text{Knot [10, 97]} &\rightarrow -3 + \frac{1}{q} + 7q - 11q^2 + 14q^3 - 14q^4 + 14q^5 - 11q^6 + 7q^7 - 4q^8 + q^9 \\
\text{Knot [10, 98]} &\rightarrow 1 + \frac{1}{q^{10}} - \frac{3}{q^9} + \frac{7}{q^8} - \frac{11}{q^7} + \frac{12}{q^6} - \frac{14}{q^5} + \frac{13}{q^4} - \frac{9}{q^3} + \frac{7}{q^2} - \frac{3}{q} \\
\text{Knot [10, 99]} &\rightarrow 15 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{7}{q^3} + \frac{10}{q^2} - \frac{12}{q} - 12q + 10q^2 - 7q^3 + 3q^4 - q^5 \\
\text{Knot [10, 100]} &\rightarrow 3 - \frac{1}{q^9} + \frac{3}{q^8} - \frac{6}{q^7} + \frac{8}{q^6} - \frac{10}{q^5} + \frac{11}{q^4} - \frac{9}{q^3} + \frac{8}{q^2} - \frac{5}{q} - q \\
\text{Knot [10, 101]} &\rightarrow q^2 - 3q^3 + 7q^4 - 10q^5 + 14q^6 - 14q^7 + 13q^8 - 11q^9 + 7q^{10} - 4q^{11} + q^{12} \\
\text{Knot [10, 102]} &\rightarrow 12 + \frac{1}{q^4} - \frac{3}{q^3} + \frac{6}{q^2} - \frac{9}{q} - 12q + 11q^2 - 9q^3 + 6q^4 - 3q^5 + q^6 \\
\text{Knot [10, 103]} &\rightarrow -6 - \frac{1}{q^8} + \frac{3}{q^7} - \frac{6}{q^6} + \frac{9}{q^5} - \frac{12}{q^4} + \frac{13}{q^3} - \frac{11}{q^2} + \frac{10}{q} + 3q - q^2 \\
\text{Knot [10, 104]} &\rightarrow 13 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{6}{q^3} + \frac{10}{q^2} - \frac{12}{q} - 12q + 10q^2 - 6q^3 + 3q^4 - q^5 \\
\text{Knot [10, 105]} &\rightarrow -11 + \frac{1}{q^3} - \frac{3}{q^2} + \frac{7}{q} + 14q - 15q^2 + 15q^3 - 12q^4 + 8q^5 - 4q^6 + q^7 \\
\text{Knot [10, 106]} &\rightarrow -9 + \frac{1}{q^3} - \frac{3}{q^2} + \frac{6}{q} + 12q - 12q^2 + 12q^3 - 10q^4 + 6q^5 - 3q^6 + q^7 \\
\text{Knot [10, 107]} &\rightarrow 16 - \frac{1}{q^5} + \frac{4}{q^4} - \frac{8}{q^3} + \frac{12}{q^2} - \frac{15}{q} - 14q + 12q^2 - 7q^3 + 3q^4 - q^5 \\
\text{Knot [10, 108]} &\rightarrow -9 - \frac{1}{q^4} + \frac{3}{q^3} - \frac{5}{q^2} + \frac{8}{q} + 10q - 10q^2 + 8q^3 - 5q^4 + 3q^5 - q^6 \\
\text{Knot [10, 109]} &\rightarrow 15 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{7}{q^3} + \frac{11}{q^2} - \frac{13}{q} - 13q + 11q^2 - 7q^3 + 3q^4 - q^5 \\
\text{Knot [10, 110]} &\rightarrow -10 + \frac{1}{q^7} - \frac{3}{q^6} + \frac{7}{q^5} - \frac{11}{q^4} + \frac{13}{q^3} - \frac{14}{q^2} + \frac{13}{q} + 7q - 3q^2 + q^3 \\
\text{Knot [10, 111]} &\rightarrow 1 - 3q + 7q^2 - 9q^3 + 12q^4 - 13q^5 + 12q^6 - 10q^7 + 6q^8 - 3q^9 + q^{10} \\
\text{Knot [10, 112]} &\rightarrow -10 + \frac{1}{q^7} - \frac{4}{q^6} + \frac{7}{q^5} - \frac{11}{q^4} + \frac{14}{q^3} - \frac{14}{q^2} + \frac{14}{q} + 7q - 4q^2 + q^3 \\
\text{Knot [10, 113]} &\rightarrow -8 - \frac{1}{q^2} + \frac{4}{q} + 14q - 17q^2 + 19q^3 - 18q^4 + 14q^5 - 10q^6 + 5q^7 - q^8 \\
\text{Knot [10, 114]} &\rightarrow 15 + \frac{1}{q^6} - \frac{4}{q^5} + \frac{7}{q^4} - \frac{11}{q^3} + \frac{15}{q^2} - \frac{15}{q} - 12q + 8q^2 - 4q^3 + q^4 \\
\text{Knot [10, 115]} &\rightarrow 19 - \frac{1}{q^5} + \frac{4}{q^4} - \frac{9}{q^3} + \frac{14}{q^2} - \frac{17}{q} - 17q + 14q^2 - 9q^3 + 4q^4 - q^5 \\
\text{Knot [10, 116]} &\rightarrow -11 + \frac{1}{q^7} - \frac{4}{q^6} + \frac{8}{q^5} - \frac{12}{q^4} + \frac{15}{q^3} - \frac{16}{q^2} + \frac{15}{q} + 8q - 4q^2 + q^3
\end{aligned}$$

$$\begin{aligned}
\text{Knot [10, 117]} &\rightarrow -8 - \frac{1}{q^2} + \frac{4}{q} + 13q - 16q^2 + 18q^3 - 16q^4 + 13q^5 - 9q^6 + 4q^7 - q^8 \\
\text{Knot [10, 118]} &\rightarrow 17 - \frac{1}{q^5} + \frac{4}{q^4} - \frac{8}{q^3} + \frac{12}{q^2} - \frac{15}{q} - 15q + 12q^2 - 8q^3 + 4q^4 - q^5 \\
\text{Knot [10, 119]} &\rightarrow 16 + \frac{1}{q^4} - \frac{4}{q^3} + \frac{9}{q^2} - \frac{13}{q} - 17q + 16q^2 - 12q^3 + 8q^4 - 4q^5 + q^6 \\
\text{Knot [10, 120]} &\rightarrow \frac{1}{q^{12}} - \frac{4}{q^{11}} + \frac{8}{q^{10}} - \frac{13}{q^9} + \frac{16}{q^8} - \frac{18}{q^7} + \frac{17}{q^6} - \frac{13}{q^5} + \frac{10}{q^4} - \frac{4}{q^3} + \frac{1}{q^2} \\
\text{Knot [10, 121]} &\rightarrow -10 - \frac{1}{q^8} + \frac{4}{q^7} - \frac{9}{q^6} + \frac{14}{q^5} - \frac{18}{q^4} + \frac{20}{q^3} - \frac{18}{q^2} + \frac{15}{q} + 5q - q^2 \\
\text{Knot [10, 122]} &\rightarrow 17 + \frac{1}{q^4} - \frac{4}{q^3} + \frac{8}{q^2} - \frac{13}{q} - 17q + 17q^2 - 13q^3 + 9q^4 - 5q^5 + q^6 \\
\text{Knot [10, 123]} &\rightarrow 21 - \frac{1}{q^5} + \frac{5}{q^4} - \frac{10}{q^3} + \frac{15}{q^2} - \frac{19}{q} - 19q + 15q^2 - 10q^3 + 5q^4 - q^5 \\
\text{Knot [10, 124]} &\rightarrow q^4 + q^6 - q^{10} \\
\text{Knot [10, 125]} &\rightarrow -1 - \frac{1}{q^4} + \frac{1}{q^3} - \frac{1}{q^2} + \frac{2}{q} + 2q - q^2 + q^3 - q^4 \\
\text{Knot [10, 126]} &\rightarrow -1 - \frac{1}{q^8} + \frac{1}{q^7} - \frac{2}{q^6} + \frac{3}{q^5} - \frac{3}{q^4} + \frac{4}{q^3} - \frac{2}{q^2} + \frac{2}{q} \\
\text{Knot [10, 127]} &\rightarrow \frac{1}{q^{10}} - \frac{2}{q^9} + \frac{3}{q^8} - \frac{5}{q^7} + \frac{5}{q^6} - \frac{5}{q^5} + \frac{4}{q^4} - \frac{2}{q^3} + \frac{2}{q^2} \\
\text{Knot [10, 128]} &\rightarrow q^3 - q^4 + 2q^5 - q^6 + 2q^7 - 2q^8 + q^9 - q^{10} \\
\text{Knot [10, 129]} &\rightarrow 5 - \frac{1}{q^5} + \frac{2}{q^4} - \frac{3}{q^3} + \frac{4}{q^2} - \frac{4}{q} - 3q + 2q^2 - q^3 \\
\text{Knot [10, 130]} &\rightarrow 2 - \frac{1}{q^7} + \frac{1}{q^6} - \frac{2}{q^5} + \frac{3}{q^4} - \frac{2}{q^3} + \frac{3}{q^2} - \frac{2}{q} - q \\
\text{Knot [10, 131]} &\rightarrow \frac{1}{q^9} - \frac{2}{q^8} + \frac{3}{q^7} - \frac{5}{q^6} + \frac{5}{q^5} - \frac{5}{q^4} + \frac{5}{q^3} - \frac{3}{q^2} + \frac{2}{q} \\
\text{Knot [10, 132]} &\rightarrow -\frac{1}{q^7} + \frac{1}{q^6} - \frac{1}{q^5} + \frac{1}{q^4} + \frac{1}{q^2} \\
\text{Knot [10, 133]} &\rightarrow \frac{1}{q^9} - \frac{2}{q^8} + \frac{2}{q^7} - \frac{3}{q^6} + \frac{3}{q^5} - \frac{3}{q^4} + \frac{3}{q^3} - \frac{1}{q^2} + \frac{1}{q} \\
\text{Knot [10, 134]} &\rightarrow q^3 - q^4 + 3q^5 - 3q^6 + 4q^7 - 4q^8 + 3q^9 - 3q^{10} + q^{11} \\
\text{Knot [10, 135]} &\rightarrow 7 - \frac{1}{q^5} + \frac{2}{q^4} - \frac{4}{q^3} + \frac{6}{q^2} - \frac{6}{q} - 5q + 4q^2 - 2q^3 \\
\text{Knot [10, 136]} &\rightarrow -2 + \frac{1}{q^3} - \frac{2}{q^2} + \frac{2}{q} + 3q - 2q^2 + 2q^3 - q^4 \\
\text{Knot [10, 137]} &\rightarrow 4 + \frac{1}{q^6} - \frac{2}{q^5} + \frac{3}{q^4} - \frac{4}{q^3} + \frac{4}{q^2} - \frac{4}{q} - 2q + q^2 \\
\text{Knot [10, 138]} &\rightarrow -5 + \frac{1}{q^3} - \frac{2}{q^2} + \frac{4}{q} + 6q - 6q^2 + 5q^3 - 4q^4 + 2q^5 \\
\text{Knot [10, 139]} &\rightarrow q^4 + q^6 - q^8 + q^9 - q^{10} + q^{11} - q^{12} \\
\text{Knot [10, 140]} &\rightarrow 1 - \frac{1}{q^7} + \frac{1}{q^6} - \frac{1}{q^5} + \frac{2}{q^4} - \frac{1}{q^3} + \frac{1}{q^2} - \frac{1}{q} \\
\text{Knot [10, 141]} &\rightarrow 3 + \frac{1}{q^6} - \frac{2}{q^5} + \frac{2}{q^4} - \frac{3}{q^3} + \frac{4}{q^2} - \frac{3}{q} - 2q + q^2 \\
\text{Knot [10, 142]} &\rightarrow q^3 - q^4 + 2q^5 - 2q^6 + 3q^7 - 2q^8 + 2q^9 - 2q^{10} \\
\text{Knot [10, 143]} &\rightarrow -1 - \frac{1}{q^8} + \frac{2}{q^7} - \frac{3}{q^6} + \frac{4}{q^5} - \frac{5}{q^4} + \frac{5}{q^3} - \frac{3}{q^2} + \frac{3}{q} \\
\text{Knot [10, 144]} &\rightarrow -3 + \frac{1}{q^7} - \frac{3}{q^6} + \frac{5}{q^5} - \frac{6}{q^4} + \frac{7}{q^3} - \frac{7}{q^2} + \frac{5}{q} + 2q \\
\text{Knot [10, 145]} &\rightarrow -\frac{1}{q^{10}} + \frac{1}{q^9} - \frac{1}{q^8} + \frac{1}{q^7} + \frac{1}{q^2} \\
\text{Knot [10, 146]} &\rightarrow 6 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{4}{q^3} + \frac{5}{q^2} - \frac{6}{q} - 4q + 3q^2 - q^3 \\
\text{Knot [10, 147]} &\rightarrow -4 + \frac{1}{q^3} - \frac{2}{q^2} + \frac{3}{q} + 5q - 4q^2 + 4q^3 - 3q^4 + q^5 \\
\text{Knot [10, 148]} &\rightarrow -1 - \frac{1}{q^8} + \frac{2}{q^7} - \frac{4}{q^6} + \frac{5}{q^5} - \frac{5}{q^4} + \frac{6}{q^3} - \frac{4}{q^2} + \frac{3}{q} \\
\text{Knot [10, 149]} &\rightarrow \frac{1}{q^{10}} - \frac{3}{q^9} + \frac{5}{q^8} - \frac{7}{q^7} + \frac{7}{q^6} - \frac{7}{q^5} + \frac{6}{q^4} - \frac{3}{q^3} + \frac{2}{q^2} \\
\text{Knot [10, 150]} &\rightarrow 1 - 2q + 4q^2 - 4q^3 + 5q^4 - 5q^5 + 4q^6 - 3q^7 + q^8 \\
\text{Knot [10, 151]} &\rightarrow -5 - \frac{1}{q^2} + \frac{3}{q} + 7q - 7q^2 + 8q^3 - 6q^4 + 4q^5 - 2q^6 \\
\text{Knot [10, 152]} &\rightarrow \frac{1}{q^{13}} - \frac{2}{q^{12}} + \frac{2}{q^{11}} - \frac{3}{q^{10}} + \frac{2}{q^9} - \frac{2}{q^8} + \frac{1}{q^7} + \frac{1}{q^6} + \frac{1}{q^4}
\end{aligned}$$

$$\begin{aligned}
\text{Knot [10, 153]} &\rightarrow 1 - \frac{1}{q^5} + \frac{1}{q^4} - \frac{1}{q^3} + \frac{1}{q^2} + q - q^2 + q^3 - q^4 \\
\text{Knot [10, 154]} &\rightarrow q^3 + 2q^6 - 2q^7 + 2q^8 - 3q^9 + 2q^{10} - 2q^{11} + q^{12} \\
\text{Knot [10, 155]} &\rightarrow 4 + \frac{1}{q^2} - \frac{2}{q} - 4q + 4q^2 - 4q^3 + 3q^4 - 2q^5 + q^6 \\
\text{Knot [10, 156]} &\rightarrow -4 - \frac{1}{q^6} + \frac{3}{q^5} - \frac{5}{q^4} + \frac{6}{q^3} - \frac{6}{q^2} + \frac{6}{q} + 3q - q^2 \\
\text{Knot [10, 157]} &\rightarrow 2q^2 - 4q^3 + 7q^4 - 8q^5 + 9q^6 - 8q^7 + 6q^8 - 4q^9 + q^{10} \\
\text{Knot [10, 158]} &\rightarrow 8 + \frac{1}{q^4} - \frac{3}{q^3} + \frac{6}{q^2} - \frac{7}{q} - 8q + 6q^2 - 4q^3 + 2q^4 \\
\text{Knot [10, 159]} &\rightarrow -1 - \frac{1}{q^8} + \frac{3}{q^7} - \frac{5}{q^6} + \frac{6}{q^5} - \frac{7}{q^4} + \frac{7}{q^3} - \frac{5}{q^2} + \frac{4}{q} \\
\text{Knot [10, 160]} &\rightarrow 1 - 2q + 3q^2 - 3q^3 + 4q^4 - 3q^5 + 3q^6 - 2q^7 \\
\text{Knot [10, 161]} &\rightarrow -\frac{1}{q^{11}} + \frac{1}{q^{10}} - \frac{1}{q^9} + \frac{1}{q^8} - \frac{1}{q^7} + \frac{1}{q^6} + \frac{1}{q^3} \\
\text{Knot [10, 162]} &\rightarrow -3 + \frac{1}{q^7} - \frac{2}{q^6} + \frac{4}{q^5} - \frac{6}{q^4} + \frac{6}{q^3} - \frac{6}{q^2} + \frac{5}{q} + 2q \\
\text{Knot [10, 163]} &\rightarrow -6 - \frac{1}{q^2} + \frac{4}{q} + 8q - 9q^2 + 9q^3 - 7q^4 + 5q^5 - 2q^6 \\
\text{Knot [10, 164]} &\rightarrow 8 - \frac{1}{q^5} + \frac{3}{q^4} - \frac{5}{q^3} + \frac{7}{q^2} - \frac{8}{q} - 6q + 5q^2 - 2q^3 \\
\text{Knot [10, 165]} &\rightarrow 2q - 4q^2 + 6q^3 - 6q^4 + 7q^5 - 6q^6 + 4q^7 - 3q^8 + q^9
\end{aligned}$$

In[]:= (# → Jones [#] [q]) & /@ AllKnots [{0, 10}] >> JonesForRolfsen.txt