

```

<< KnotTheory` 

Loading KnotTheory` version of April 20, 2009, 14:18:34.482.
Read more at http://katlas.org/wiki/KnotTheory.

Import["http://katlas.org/wiki/SubLink.m&action=raw"];

L = Link["L11a391"]

Link[11, Alternating, 391]

mva = MultivariableAlexander[L][t]

KnotTheory:loading: Loading precomputed data in MultivariableAlexander4Links`.

(-t[1] - t[2] + t[1] t[2] - 2 t[3] + 3 t[1] t[3] + 3 t[2] t[3] -
 2 t[1] t[2] t[3] + 2 t[3]^2 - 3 t[1] t[3]^2 - 3 t[2] t[3]^2 + 2 t[1] t[2] t[3]^2 - 2 t[3]^3 +
 3 t[1] t[3]^3 + 3 t[2] t[3]^3 - 2 t[1] t[2] t[3]^3 + 2 t[3]^4 - 3 t[1] t[3]^4 - 3 t[2] t[3]^4 +
 2 t[1] t[2] t[3]^4 - t[3]^5 + t[1] t[3]^5 + t[2] t[3]^5) / (sqrt[t[1]] sqrt[t[2]] t[3]^(5/2))

mva /. t[_] → 1

0

Table[{
  sub = SubLink[L, k],
  Alexander[sub][t],
  Simplify[mva / (1 - t[k]) /.
    t[i_] :> 1 /; i ≠ k]
}, {k, 3}]
]

```

KnotTheory:loading: Loading precomputed data in PD4Links`.

KnotTheory:loading: Loading precomputed data in PD4Knots`.

```

{PD[Loop[1]], 1, -1}, {PD[Loop[1]], 1, -1},
{PD[X[6, 1, 7, 2], X[10, 5, 1, 6], X[8, 3, 9, 4], X[2, 7, 3, 8], X[4, 9, 5, 10]],

  1 +  $\frac{1}{t^2} - \frac{1}{t} - t + t^2$ , -1 -  $\frac{1}{t[3]^2} + \frac{1}{t[3]} - t[3] - t[3]^2\}$ 
}

Alexander[Knot[5, 1]][t]

1 +  $\frac{1}{t^2} - \frac{1}{t} - t + t^2$ 

Alexander[Knot[5, 1]][1]

1

```