

<< **KnotTheory`**

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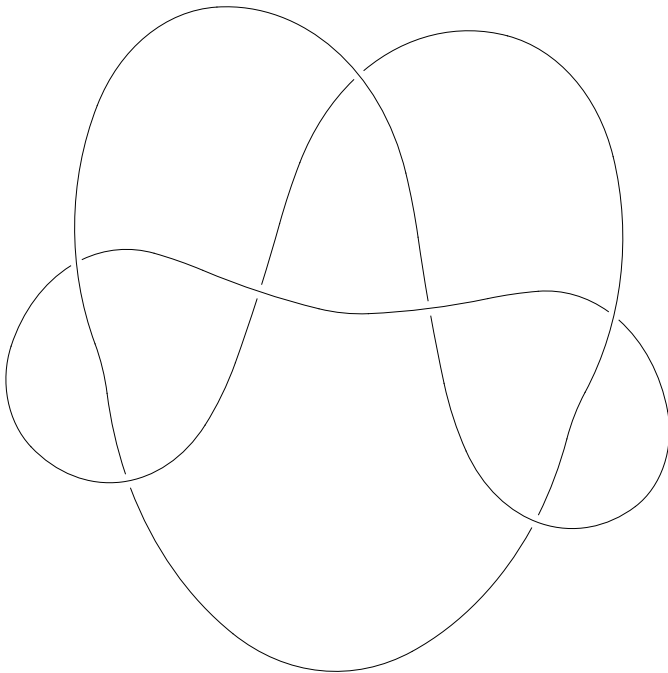
Read more at <http://katlas.org/wiki/KnotTheory>.

K = PD[X[1, 10, 2, 11], X[3, 13, 4, 12], X[4, 7, 5, 8],
X[6, 14, 7, 13], X[9, 2, 10, 3], X[11, 9, 12, 8], X[14, 6, 1, 5]]

PD[X[1, 10, 2, 11], X[3, 13, 4, 12], X[4, 7, 5, 8],
X[6, 14, 7, 13], X[9, 2, 10, 3], X[11, 9, 12, 8], X[14, 6, 1, 5]]

DrawPD [K]

KnotTheory::credits : DrawPD was written by Emily Redelmeier at the University of Toronto in the summers of 2003 and 2004.



Jones [K] [q]

$$2 + \frac{1}{q^2} - \frac{1}{q} - 2q + q^2 - q^3 + q^4$$

Jones [K // Mirror] [q]

$$2 + \frac{1}{q^4} - \frac{1}{q^3} + \frac{1}{q^2} - \frac{2}{q} - q + q^2$$

(# -> Jones[#][q]) & /@ AllKnots[{0, 6}]

$$\left\{ \text{Knot}[0, 1] \rightarrow 1, \text{Knot}[3, 1] \rightarrow -\frac{1}{q^4} + \frac{1}{q^3} + \frac{1}{q}, \right.$$

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

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

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