

In[]:= << 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[ ]:= K = PD[
  X[1, 13, 2, 12], X[3, 14, 4, 15], X[5, 9, 6, 8], X[7, 18, 8, 19],
  X[9, 21, 10, 20], X[11, 22, 12, 23], X[13, 17, 14, 16], X[15, 2, 16, 3],
  X[17, 5, 18, 4], X[19, 6, 20, 7], X[21, 1, 22, 24], X[23, 10, 24, 11]
];
J = Jones[K][q]
```

$$Out[]:= -19 + \frac{1}{q^5} - \frac{3}{q^4} + \frac{7}{q^3} - \frac{11}{q^2} + \frac{15}{q} + 20q - 19q^2 + 17q^3 - 11q^4 + 7q^5 - 4q^6 + q^7$$

```
In[ ]:= Select[AllKnots[12], Jones[#][q] == J &]
```

Out[]:= {Knot[12, Alternating, 503]}

```
In[ ]:= Select[AllKnots[12], Jones[#][q] == (J /. q -> 1/q) &]
```

Out[]:= {}

So the above knot appears to be 12^a_{503} .