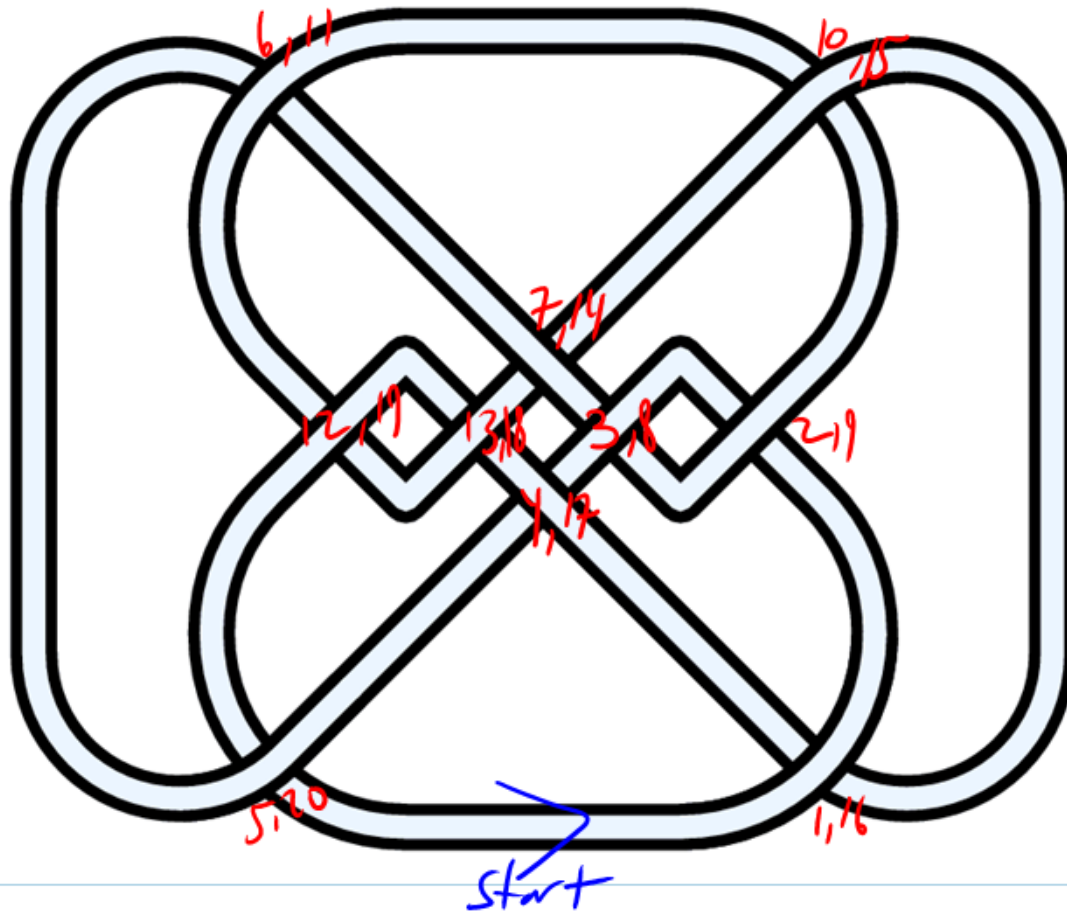


A Knot from AnonMoos

February-07-10

12:36 AM



$DT[16, 8, 20, 14, 2, 6, 18, 10, 4, 12]$

<< KnotTheory`

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

$K = DTCode[16, 8, 20, 14, 2, 6, 18, 10, 4, 12]$

$DTCode[16, 8, 20, 14, 2, 6, 18, 10, 4, 12]$

```
J = Jones [K] [q]
```

```
KnotTheory::credits :
```

The GaussCode to PD conversion was written by Siddarth Sankaran at the University of Toronto in the summer of 2005.

$$q^2 - 4 q^3 + 10 q^4 - 13 q^5 + 17 q^6 - 18 q^7 + 16 q^8 - 13 q^9 + 8 q^{10} - 4 q^{11} + q^{12}$$

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

```
KnotTheory::loading : Loading precomputed data in Jones4Knots`.
```

```
KnotTheory::loading : Loading precomputed data in Jones4Knots11`.
```

```
{ }
```

```
Select[AllKnots[],
  Jones[#][q] == (J /. q -> 1/q) &
]
{Knot[10, 120]}
```



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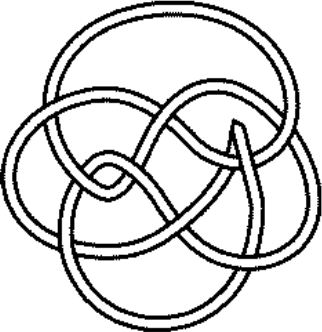
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10 120

From Knot Atlas



(KnotPlot image)

See the full [Rolfsen Knot Table](#).

Visit [10 120's page](#) at the [Knot Server](#) ([KnotPlot](#) driven, includes 3D interactive images!)

Visit [10 120's page](#) at [Knotilus](#)!

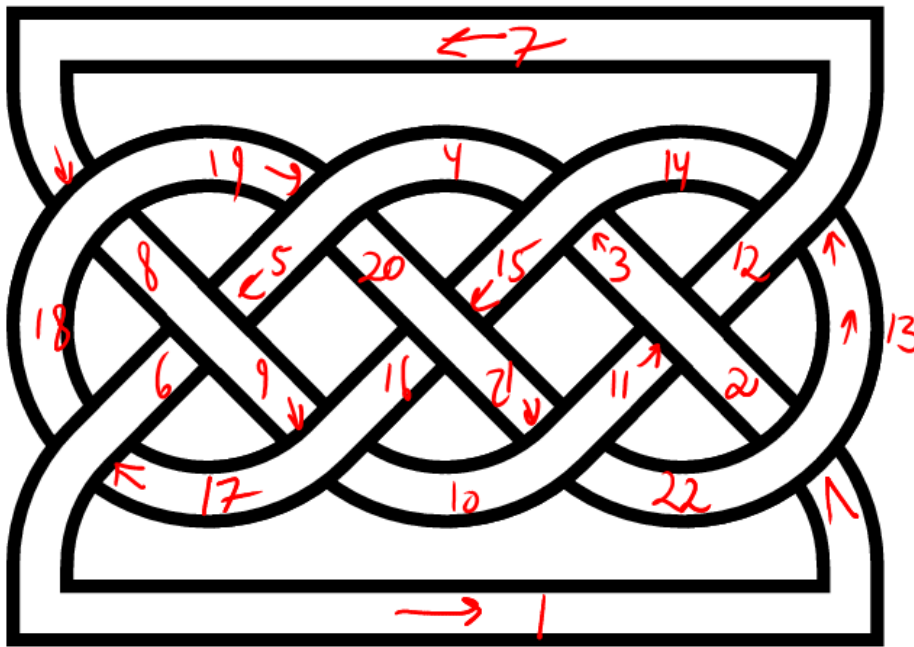
Visit [10 120's page](#) at the original [Knot Atlas](#)!

[\[edit 10 120 Quick Notes\]](#)

[\[edit 10 120 Further Notes and Views\]](#)

Knot presentations [\[edit\]](#)

Planar diagram presentation	$X_{1627} X_{5,18,6,19} X_{13,20,14,1} X_{11,16,12,17} X_{3,10,4,11} X_{7,12,8,13} X_{9,4,10,5} X_{15,8,16,9} X_{19,14,20,15} X_{17,2,18,3}$
Gauss code	-1, 10, -5, 7, -2, 1, -6, 8, -7, 5, -4, 6, -3, 9, -8, 4, -10, 2, -9, 3
Dowker-Thistlethwaite code	6 10 18 12 4 16 20 8 2 14
Conway Notation	[8*20::20]



$x[1, 13, 2, 22]$ $x[3, 14, 4, 15]$ $x[5, 8, 6, 9]$ $x[7, 18, 8, 19]$
 $x[9, 17, 10, 16]$ $x[11, 2, 12, 3]$ $x[13, 7, 14, 12]$ $x[15, 20, 16, 21]$
 $x[17, 6, 18, 1]$ $x[19, 5, 20, 4]$ $x[21, 10, 22, 11]$

```

L = PD[
  x[1, 13, 2, 22], x[3, 14, 4, 15], x[5, 8, 6, 9], x[7, 18, 8, 19],
  x[9, 17, 10, 16], x[11, 2, 12, 3], x[13, 7, 14, 12], x[15, 20, 16, 21],
  x[17, 6, 18, 1], x[19, 5, 20, 4], x[21, 10, 22, 11]
]

```

```

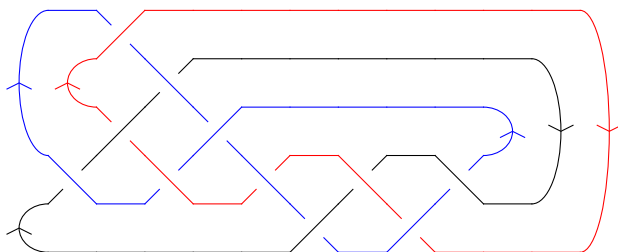
PD[x[1, 13, 2, 22], x[3, 14, 4, 15], x[5, 8, 6, 9],
  x[7, 18, 8, 19], x[9, 17, 10, 16], x[11, 2, 12, 3], x[13, 7, 14, 12],
  x[15, 20, 16, 21], x[17, 6, 18, 1], x[19, 5, 20, 4], x[21, 10, 22, 11]]

```

DrawMorseLink [L]

KnotTheory::credits : MorseLink was added to KnotTheory` by Siddarth Sankaran at the University of Toronto in the summer of 2005.

KnotTheory::credits : DrawMorseLink was written by Siddarth Sankaran at the University of Toronto in the summer of 2005.



j = Jones [L] [q]

$$-23 - \frac{1}{q^8} + \frac{5}{q^7} - \frac{13}{q^6} + \frac{23}{q^5} - \frac{31}{q^4} + \frac{37}{q^3} - \frac{36}{q^2} + \frac{33}{q} + 15q - 6q^2 + q^3$$

```
maybe = Select[AllLinks[], (
  quo = Factor[(Jones[#][q] / j)];
  quo == 1 || quo == q || MatchQ[quo, q^_]
) &]
```

KnotTheory::loading : Loading precomputed data in Jones4Links`.

```
{}
```

Oops, silly. L has 11 crossings so it wouldn't be in the tables...