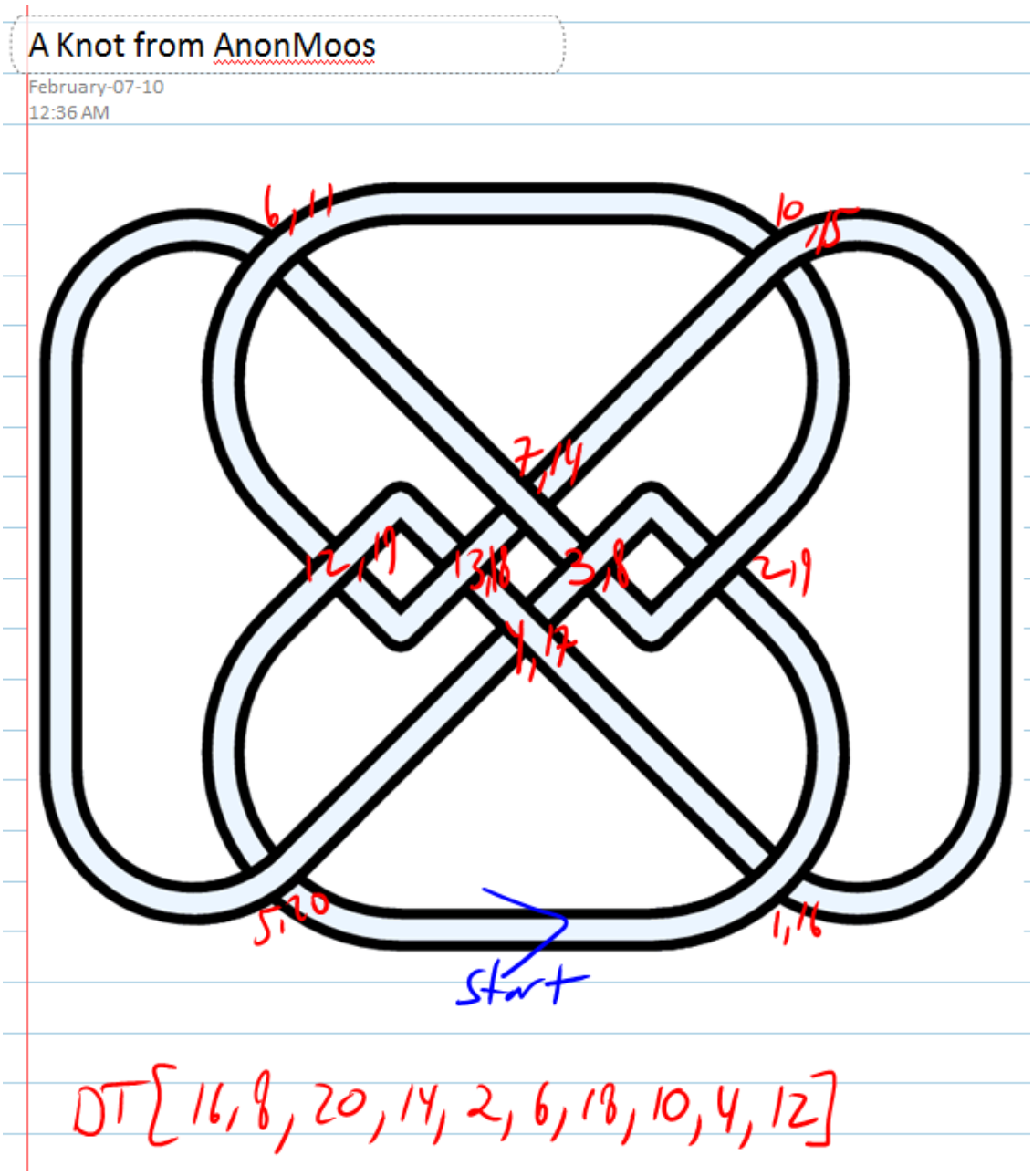



```
<< KnotTheory`
```

```
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 &
]
```

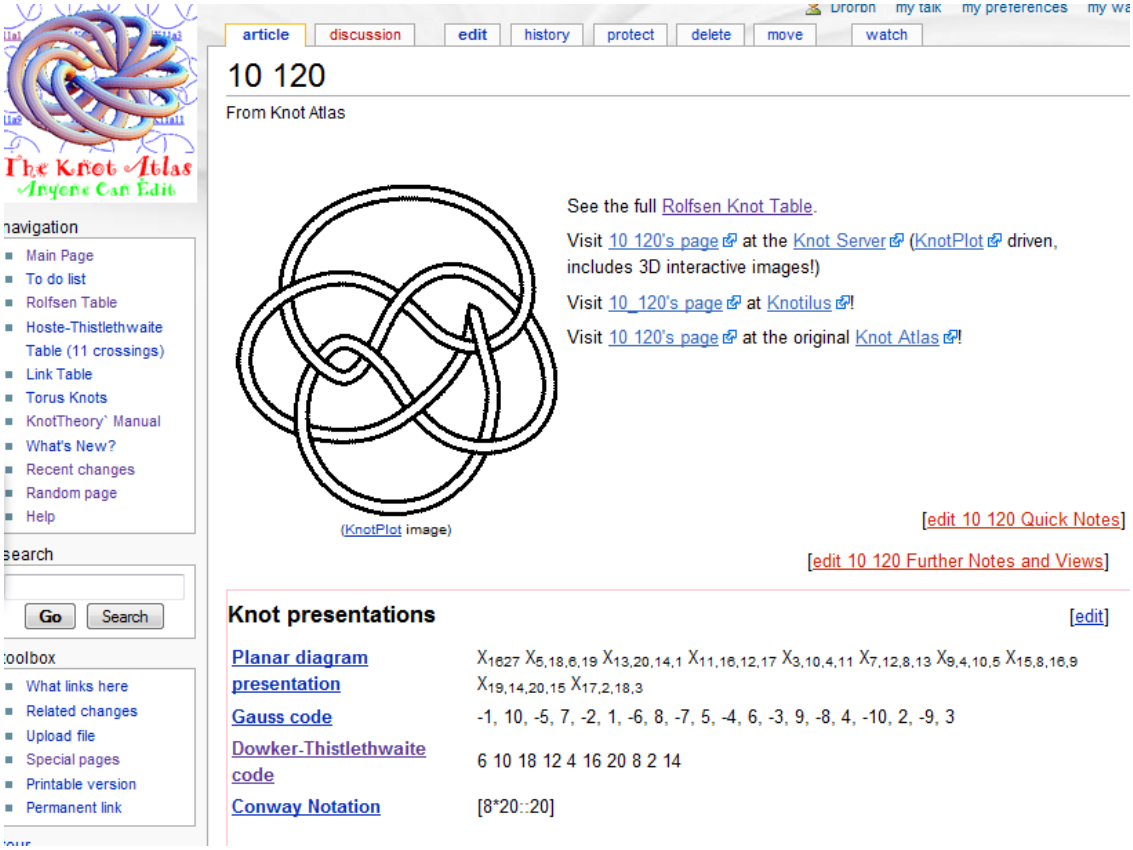
KnotTheory::loading : Loading precomputed data in Jones4Knots`.

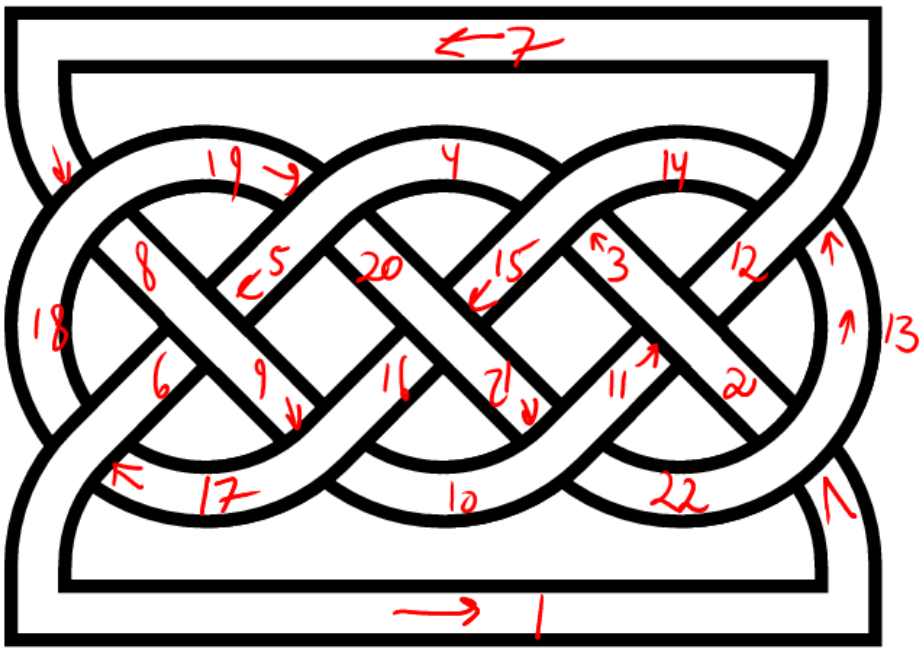
KnotTheory::loading : Loading precomputed data in Jones4Knots11`.

{}

```
Select[AllKnots[],
 Jones[#][q] == (J /. q → 1 / q) &
]
```

```
{Knot[10, 120]}
```





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]

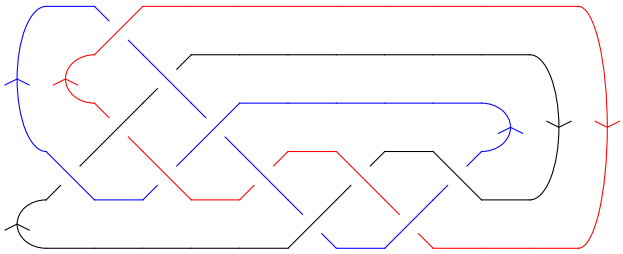
```
L = PD[
   X[1, 13, 2, 22], X[3, 14, 4, 15], X[5, 8, 6, 9], X[7, 18, 8, 19],
   X[9, 17, 10, 16], X[11, 2, 12, 3], X[13, 7, 14, 12], X[15, 20, 16, 21],
   X[17, 6, 18, 1], X[19, 5, 20, 4], X[21, 10, 22, 11]
  ]
```

```
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]
```

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

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

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

```
{}
```

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