```
<< KnotTheory`
```

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

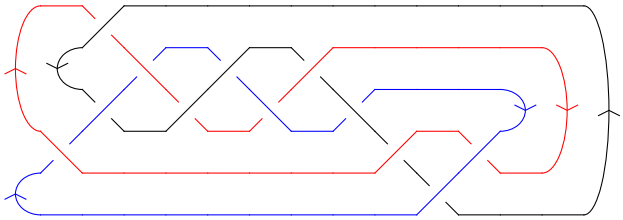
```
L = PD[X[1, 23, 2, 22], X[3, 24, 4, 17], X[4, 12, 5, 11], X[6, 13, 7, 14],
   X[9, 3, 10, 2], X[12, 20, 13, 19], X[14, 21, 15, 22], X[15, 8, 16, 1],
   X[17, 11, 18, 10], X[18, 5, 19, 6], X[20, 8, 21, 7], X[23, 16, 24, 9]]
```

```
PD[X[1, 23, 2, 22], X[3, 24, 4, 17], X[4, 12, 5, 11], X[6, 13, 7, 14],
 X[9, 3, 10, 2], X[12, 20, 13, 19], X[14, 21, 15, 22], X[15, 8, 16, 1],
 X[17, 11, 18, 10], X[18, 5, 19, 6], X[20, 8, 21, 7], X[23, 16, 24, 9]]
```

```
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.



```
mva = MultivariableAlexander[L][t]
```

KnotTheory::credits :
The multivariable Alexander program "MVA2" was written by Jana Archibald at the University of Toronto
in 2007–2008.

$$\frac{(-1+t[1])\,(-1+t[2])\,(-1+t[3])\,(1+t[1]\,t[3])^2}{t[1]^{3/2}\,\sqrt{t[2]}\;t[3]^{3/2}}$$

```
AllLinks[{12, 12}] // Length
```

```
4276
```

```
PD[AllLinks[{12, 12}] // First]
```

KnotTheory::loading : Loading precomputed data in PD4Links`.

```
PD[Link[12, Alternating, 1]]
```

```
Select[AllLinks[{2, 11}], (MultivariableAlexander[#][t] === mva) &]
```

KnotTheory::loading : Loading precomputed data in MultivariableAlexander4Links`.

```
{}
```