In[•]:= **<< KnotTheory`**

Loading KnotTheory` version of September 6, 2014, 13:37:37.2841 .

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

In[•]:= **K = GaussCode [58, 32, 53, 54, -4, -3, 14, 15, 16, -13, 17, 18, -11, -53, -12, 21, -35, 9,**
-44, 10, 40, 31, -25, -16, 13, 19, 5, 2, -7, -55, -8, -33, -9, -46, 50, 29, 38, -26,
-47, 1, -15, 4, -52, 35, 33, -6, 36, 34, 37, -5, -24, -17, -54, 12, 20, 8, 39, -45, 30,
-48, -34, -49, -10, -50, 51, 52, -21, -20, -22, -56, 23, 24, -19, 25, 26, 27, -29,
-28, -31, -37, 48, -30, -42, 7, 41, 22, -57, -58, -32, 11, -18, -23, -2, 42, 45, 43,
6, 44, 46, -51, 3, -14, -1, 47, -27, -38, 28, -40, 49, -36, -43, -39, 55, -41, 56, 57]

Out[•]= GaussCode [58, 32, 53, 54, -4, -3, 14, 15, 16, -13, 17, 18, -11, -53, -12, 21, -35, 9, -44,
10, 40, 31, -25, -16, 13, 19, 5, 2, -7, -55, -8, -33, -9, -46, 50, 29, 38, -26, -47,
1, -15, 4, -52, 35, 33, -6, 36, 34, 37, -5, -24, -17, -54, 12, 20, 8, 39, -45, 30,
-48, -34, -49, -10, -50, 51, 52, -21, -20, -22, -56, 23, 24, -19, 25, 26, 27, -29,
-28, -31, -37, 48, -30, -42, 7, 41, 22, -57, -58, -32, 11, -18, -23, -2, 42, 45, 43,
6, 44, 46, -51, 3, -14, -1, 47, -27, -38, 28, -40, 49, -36, -43, -39, 55, -41, 56, 57]

In[◦]:= **khovanov = Kh[K][q , t]**

> KnotTheory : The Khovanov homology program JavaKh −v2 is an update of Jeremy Green 's program JavaKh −v1, written by Scott Morrison in 2008 at Microsoft Station Q.

Out[◦]=

$$\frac{1}{q^3} + \frac{2}{q} + q + \frac{1}{q^{49}\,t^{32}} + \frac{1}{q^{45}\,t^{31}} + \frac{1}{q^{45}\,t^{30}} + \frac{1}{q^{45}\,t^{29}} + \frac{1}{q^{43}\,t^{29}} + \frac{1}{q^{41}\,t^{29}} + \frac{1}{q^{43}\,t^{28}} + \frac{1}{q^{41}\,t^{28}} + \frac{1}{q^{39}\,t^{28}} +$$

$$\frac{1}{q^{41}\,t^{27}} + \frac{2}{q^{39}\,t^{27}} + \frac{1}{q^{41}\,t^{26}} + \frac{1}{q^{39}\,t^{26}} + \frac{1}{q^{37}\,t^{26}} + \frac{1}{q^{35}\,t^{26}} + \frac{1}{q^{39}\,t^{25}} + \frac{2}{q^{37}\,t^{25}} + \frac{1}{q^{35}\,t^{25}} + \frac{1}{q^{39}\,t^{24}} +$$

$$\frac{1}{q^{37}\,t^{24}} + \frac{2}{q^{35}\,t^{24}} + \frac{1}{q^{33}\,t^{24}} + \frac{1}{q^{37}\,t^{23}} + \frac{3}{q^{35}\,t^{23}} + \frac{1}{q^{33}\,t^{23}} + \frac{1}{q^{31}\,t^{23}} + \frac{1}{q^{35}\,t^{22}} + \frac{2}{q^{33}\,t^{22}} + \frac{2}{q^{31}\,t^{22}} +$$

$$\frac{1}{q^{35}\,t^{21}} + \frac{3}{q^{33}\,t^{21}} + \frac{2}{q^{31}\,t^{21}} + \frac{1}{q^{29}\,t^{21}} + \frac{2}{q^{33}\,t^{20}} + \frac{3}{q^{31}\,t^{20}} + \frac{4}{q^{29}\,t^{20}} + \frac{1}{q^{27}\,t^{20}} + \frac{2}{q^{31}\,t^{19}} + \frac{4}{q^{29}\,t^{19}} +$$

$$\frac{2}{q^{27}\,t^{19}} + \frac{1}{q^{25}\,t^{19}} + \frac{1}{q^{31}\,t^{18}} + \frac{2}{q^{29}\,t^{18}} + \frac{4}{q^{27}\,t^{18}} + \frac{2}{q^{25}\,t^{18}} + \frac{2}{q^{29}\,t^{17}} + \frac{4}{q^{27}\,t^{17}} + \frac{3}{q^{25}\,t^{17}} + \frac{2}{q^{23}\,t^{17}} +$$

$$\frac{2}{q^{27}\,t^{16}} + \frac{5}{q^{25}\,t^{16}} + \frac{4}{q^{23}\,t^{16}} + \frac{1}{q^{21}\,t^{16}} + \frac{1}{q^{27}\,t^{15}} + \frac{3}{q^{25}\,t^{15}} + \frac{3}{q^{23}\,t^{15}} + \frac{3}{q^{21}\,t^{15}} + \frac{1}{q^{19}\,t^{15}} + \frac{2}{q^{25}\,t^{14}} +$$

$$\frac{4}{q^{23}\,t^{14}} + \frac{4}{q^{21}\,t^{14}} + \frac{1}{q^{19}\,t^{14}} + \frac{4}{q^{23}\,t^{13}} + \frac{4}{q^{21}\,t^{13}} + \frac{4}{q^{19}\,t^{13}} + \frac{1}{q^{17}\,t^{13}} + \frac{1}{q^{23}\,t^{12}} + \frac{3}{q^{21}\,t^{12}} + \frac{6}{q^{19}\,t^{12}} +$$

$$\frac{2}{q^{17}\,t^{12}} + \frac{1}{q^{15}\,t^{12}} + \frac{2}{q^{21}\,t^{11}} + \frac{4}{q^{19}\,t^{11}} + \frac{4}{q^{17}\,t^{11}} + \frac{2}{q^{15}\,t^{11}} + \frac{3}{q^{19}\,t^{10}} + \frac{6}{q^{17}\,t^{10}} + \frac{3}{q^{15}\,t^{10}} +$$

$$\frac{1}{q^{13}\,t^{10}} + \frac{4}{q^{17}\,t^{9}} + \frac{5}{q^{15}\,t^{9}} + \frac{4}{q^{13}\,t^{9}} + \frac{1}{q^{17}\,t^{8}} + \frac{4}{q^{15}\,t^{8}} + \frac{5}{q^{13}\,t^{8}} + \frac{2}{q^{11}\,t^{8}} + \frac{2}{q^{15}\,t^{7}} + \frac{4}{q^{13}\,t^{7}} +$$

$$\frac{4}{q^{11}\,t^{7}} + \frac{1}{q^{9}\,t^{7}} + \frac{3}{q^{13}\,t^{6}} + \frac{5}{q^{11}\,t^{6}} + \frac{3}{q^{9}\,t^{6}} + \frac{3}{q^{11}\,t^{5}} + \frac{5}{q^{9}\,t^{5}} + \frac{3}{q^{7}\,t^{5}} + \frac{3}{q^{9}\,t^{4}} + \frac{3}{q^{7}\,t^{4}} + \frac{2}{q^{5}\,t^{4}} +$$

$$\frac{1}{q^{9}\,t^{3}} + \frac{3}{q^{7}\,t^{3}} + \frac{3}{q^{5}\,t^{3}} + \frac{2}{q^{7}\,t^{2}} + \frac{3}{q^{5}\,t^{2}} + \frac{3}{q^{3}\,t^{2}} + \frac{1}{q^{5}\,t} + \frac{3}{q^{3}\,t} + \frac{2}{q\,t} + \frac{2\,t}{q} + q\,t^{2} + 2\,q^{3}\,t^{2} + q^{5}\,t^{3}$$