

<< KnotTheory`

Loading KnotTheory` version of February 5, 2013, 3:48:46.4762.
 Read more at <http://katlas.org/wiki/KnotTheory>.

K = Knot [3, 1]

Knot [3, 1]

sInvariant [K]

SetDelayed::write: Tag Matrices in Matrices[k : Complex[{n_, _}, ___]] is Protected. >>

KnotTheory::credits: Universal Khovanov homology over $\mathbb{Q}[t]$ is calculated using Jeremy Green's JavaKh program, interpreted by a wrapper written by Dror Bar-Natan, and decomposed into direct summands using a program of Scott Morrison and Alexander Shumakovitch.

KnotTheory::loading: Loading precomputed data in PD4Knots`.

pd1->PD[X[1, 4, 2, 5], X[3, 6, 4, 7], X[5, 2, 6, 3]]

$$\text{kh} \rightarrow \frac{\text{KnotTheory`UniversalKh`Private`M}[0, 1]}{q^2} + \frac{\text{KnotTheory`UniversalKh`Private`M}[0, 1]}{q^8 t^3} + \frac{\text{KnotTheory`UniversalKh`Private`M}[0, 1]}{q^6 t^2} + \frac{\text{KnotTheory`UniversalKh`Private`h KnotTheory`UniversalKh`Private`M}[1, 1, 1]}{q^8 t^3}$$

Matrices::dimsl: First argument

KnotTheory`UniversalKh`Private`Komplex[{-3, KnotTheory`UniversalKh`Private`Arc[-8, 1], KnotTheory`UniversalKh`Private`H KnotTheory`UniversalKh`Private`Curtain[-8, 1, -6, 1]}, {-2, KnotTheory`UniversalKh`Private`Arc[-6, 1], 0}, {-1, 0, 0}, {0, KnotTheory`UniversalKh`Private`Arc[-2, 1], 0}] of

Matrices[KnotTheory`UniversalKh`Private`Komplex[{-3, KnotTheory`UniversalKh`Private`Arc[-8, 1], KnotTheory`UniversalKh`Private`H KnotTheory`UniversalKh`Private`Curtain[-8, 1, -6, 1]}, {-2, KnotTheory`UniversalKh`Private`Arc[-6, 1], 0}, {-1, 0, 0}, {0, KnotTheory`UniversalKh`Private`Arc[-2, 1], 0}]]

should be a list of positive dimensions. >>

KnotTheory`UniversalKh`Private`DecomposeComplex [

{-3, {{-8}, {-6}, {}, {-2}}}, Matrices [KnotTheory`UniversalKh`Private`Komplex [{-3, KnotTheory`UniversalKh`Private`Arc [-8, 1], KnotTheory`UniversalKh`Private`H KnotTheory`UniversalKh`Private`Curtain [-8, 1, -6, 1] }, {-2, KnotTheory`UniversalKh`Private`Arc [-6, 1], 0}, {-1, 0, 0}, {0, KnotTheory`UniversalKh`Private`Arc [-2, 1], 0}]]]

? Matrices

Matrices[{d1, d2}] represents the domain of matrices of dimensions $d_1 \times d_2$.

Matrices[{d1, d2}, dom] represents the domain of matrices of dimensions $d_1 \times d_2$, with components in the domain *dom*.

Matrices[{d1, d2}, dom, sym] represents the subdomain of matrices $d_1 \times d_2$ with symmetry *sym*. >>