Pensieve header: Compute and store Kh, and HOMFLYPT for knots with up to 15 crossings

In[ ]:= **SetDirectory["C:\\drorbn\\AcademicPensieve\\Projects\\APAI\\Data"];**

In[ ]:= **Once[<< KnotTheory`];**

C:\drorbn\AcademicPensieve\Projects\KnotTheory\KnotTheory

Loading KnotTheory` version of February 2, 2020, 10:53:45.2097.
Read more at http://katlas.org/wiki/KnotTheory.

⬤ SetDelayed: Tag Diff in Diff[K_PD, rut_, ag_, n_, m_] is Protected.

In[ ]:= **Monitor[Table[K → Kh[PD@K][q, t], {K, AllKnots[{3, 7}]}] >> "Kh3-7.m", K]**

⬤ KnotTheory: Loading precomputed data in PD4Knots`.

⬤ 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.

In[ ]:= **Monitor[Table[K → HOMFLYPT[PD@K][a, z], {K, AllKnots[{3, 7}]}] >> "HOMFLYPT3-7.m", K]**

⬤ KnotTheory: The HOMFLYPT program was written by Scott Morrison.

In[ ]:= **Monitor[Table[K → Kh[PD@K][q, t], {K, AllKnots[{3, 15}]}] >> "Kh3-15.m", K]**

⬤ KnotTheory: Loading precomputed data in DTCode4KnotsTo11`.

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

Something went wrong running JavaKh; nothing was returned. The command line was:

```
!java -classpath
  "C:\drorbn\AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\bin;C:\drorbn\
  AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\jars\commons-cli-1.0.jar;C:\drorbn\
  AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\jars\commons-io-1.2.jar;C:\drorbn\
  AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\jars\commons-logging-1.1.jar;C:\
  drorbn\AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\jars\log4j-1.2.12.jar"
  org.katlas.JavaKh.JavaKh --mod 0 < pd 2> JavaKh.log
```

There may have been an error log produced by Java:

Something went wrong running JavaKh; nothing was returned. The command line was:

```
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  "C:\drorbn\AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\bin;C:\drorbn\
  AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\jars\commons-cli-1.0.jar;C:\drorbn\
  AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\jars\commons-io-1.2.jar;C:\drorbn\
  AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\jars\commons-logging-1.1.jar;C:\
  drorbn\AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\jars\log4j-1.2.12.jar"
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  AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\jars\commons-io-1.2.jar;C:\drorbn\
  AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\jars\commons-logging-1.1.jar;C:\
  drorbn\AcademicPensieve\Projects\KnotTheory\KnotTheory\JavaKh-v2\jars\log4j-1.2.12.jar"
  org.katlas.JavaKh.JavaKh --mod 0 < pd 2> JavaKh.log
```

There may have been an error log produced by Java:

Out[•]=

$Aborted

```
Monitor[
 Table[K → HOMFLYPT[PD@K][a, z], {K, AllKnots[{3, 15}]}]] >> "Data/HOMFLYPT3-15.m", K]
```