

1123-57-376

Thomas Kindred* (thomas-kindred@uiowa.edu), Department of Mathematics, 14 MacLean Hall, Iowa City, IA 52242. *Khovanov homology detects adequate homogeneous states*. Preliminary report.

Given an adequate homogeneous state of a link diagram, we construct a sum of this state's enhancements (in the sense of Viro) which is nonzero in Khovanov homology over $\mathbb{Z}/2\mathbb{Z}$. This talk is intended for a general audience and will assume no background knowledge beyond linear algebra and the definition of a link diagram. Expect lots of pictures. (Received August 30, 2016)