1151-57-295 Krzysztof K. Putyra and Alexander N. Shumakovitch* (shurik@gwu.edu), 801 22nd St. NW, Phillips Hall, Suite 739, Department of Mathematics, The George Washington University, Washington, DC 20052. *Unified Khovanov homology and its properties*. Preliminary report.

Unified Khovanov homology combines even and odd Khovanov homology theories into a single algebraic object that carries the structure of a module over the group ring $\mathbb{Z}\mathbb{Z}_2$. It was previously shown by the authors that the unified Khovanov homology is often a stronger knot invariant than the even and odd Khovanov homology combined. In this talk, we present evidence that two knots with the same unified Khovanov homology might nonetheless have different even and/or odd Khovanov homology. This is remarkable since one can easily obtain even and odd Khovanov chain complexes from the unified one. (Received August 20, 2019)