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Krzysztof K. Putyra and **Alexander N. Shumakovitch*** (shurik@gwu.edu), Monroe Hall, 2115 G St. NW, room 240, Department of Mathematics, The George Washington University, Washington, DC 20850. *Homological operations on reduced Khovanov homology*. Preliminary report.

There are several homological operations that can be defined between even and odd reduced Khovanov homology theories using the unified even/odd Khovanov homology theory developed by Putyra. We discuss these homological operations, compare them to those between underduced versions of Khovanov homology, and show how they can give rise to new knot invariants with interesting properties. (Received August 11, 2015)