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Radmila Sazdanovic* (rsazdan@ncsu.edu), Department of Mathematics NC State University, Raleigh, NC 27695, and **Vladimir Baranovsky**. *On factorization and chromatic graph homology*. Preliminary report.

Factorization homology, introduced by Ayala, Francis, and Tanaka, generalizes Hochschild homology. Helme-Guizon and Rong's chromatic homology, a Khovanov-type homology for graphs, approximates Hochschild homology when applied to cycle graphs. We provide alternative construction for the chromatic homology of any graph that allows us to view it as an approximation of factorization homology. (Received January 20, 2020)