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Claudia Miller, Hamid Rahmati and Alexandra Seceleanu* (aseceleanu@unl.edu).

Comparing ranks of maps on graded artinian Gorenstein algebras. Preliminary report.

We apply ideas from the theory of tensor rank to relate the ranks of certain maps between homogeneous components of graded algebras. Our work has applications to the study of the weak Lefschetz property for artinian Gorenstein rings. (Received January 22, 2018)