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Alexander Berkovich* (alex@math.ufl.edu), Mathematics Department, University of Florida,
Little Hall 496, Gainesville, FL 32611. *The GBG-Rank , 4-cores and 3-cores*. Preliminary report.

I will provide an elegant combinatorial explanation of some amazing formulas for 4-cores due to M.Hirshhorn and J. Sellers. I will discuss analogous new results for 3-cores. (Received February 01, 2009)