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Claudia Miller* (clamille@syr.edu) and **Hamidreza Rahmati**. *Resolutions and dg-algebra structures for compressed Artinian algebras.*

We construct free resolutions of compressed Artinian graded algebra quotients of polynomial rings and give a method to reduce them to a minimal resolutions. Our result generalizes results of El Khoury and Kustin for Gorenstein algebras of even socle degree with a different proof. Then we use this to construct dg-algebra structures in the Gorenstein case. (Received January 24, 2019)