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Keller VandeBogert* (kellerlv@math.sc.edu). *DG Structure on Length 3 Trimming Complexes and Realizability of Tor-Algebras.*

In this talk, we will show how an (iterated) trimming complex of length 3 admits an associative algebra structure that can be defined in terms of the algebra structures of the associated input data. In particular, this implies that the process of "trimming" an ideal preserves Tor-algebra class under mild hypotheses. This allows one to construct new examples of rings of Tor-algebra class $G(r)$ and $H(p, q)$ in a general setting. (Received January 14, 2021)