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Adam Lee Booher* (abooher@sandiego.edu). *Large Lower Bounds for Betti Numbers of Graded Modules.*

Let M be a finitely-generated graded module over a polynomial ring. I'll discuss the state of the art concerning lower bounds for the betti numbers of M including recent results that give large lower bounds for the first half of the betti numbers in many cases of interest. (Received February 25, 2020)