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**Giulio Caviglia** and **Alessio Sammartano\*** ([asammartano@msri.org](mailto:asammartano@msri.org)). *Betti numbers of ideals containing a regular sequence.*

Let  $S$  be a polynomial ring over a field  $\mathbb{k}$  and  $I \subseteq S$  a homogeneous ideal containing a regular sequence  $\mathbf{f} = f_1, \dots, f_c$ . In this talk we investigate the existence of sharp bounds on the Betti numbers of  $I$  in terms of the degree sequence of  $\mathbf{f}$  and the Hilbert function or the Hilbert polynomial of  $I$ . (Received February 01, 2018)