1142-13-67   **Giulio Caviglia*** (`gcavigli@purdue.edu`), Department of Mathematics, Purdue University, 150 N. University Street, West Lafayette, IN 47907, and **Alessio Sammartano**, Department of Mathematics, University of Notre Dame, 255 Hurley, Notre Dame, IN 46556. *On the Lex-plus-powers Conjecture.*

Let S be a polynomial ring over a field and $I \subseteq S$ a homogeneous ideal containing a regular sequence of forms of degrees $d_1, \ldots, d_c$. In this paper we prove the Lex-plus-powers Conjecture when the field has characteristic 0 for all regular sequences such that $d_i \geq \sum_{j=1}^{i-1}(d_j - 1) + 1$ for each i; that is, we show that the Betti table of I is bounded above by the Betti table of the lex-plus-powers ideal of I. (Received August 27, 2018)

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