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Jeffrey A Mermin* (mermin@math.cornell.edu), Department of Mathematics, 310 Malott Hall, Cornell University, Ithaca, NY 14853, and **Irena Peeva** and **Mike Stillman**. *Ideals containing the squares of the variables.*

We study the Betti numbers of graded ideals containing the squares of the variables, in a polynomial ring. We prove the lex-plus-powers conjecture for such ideals. (Received September 19, 2005)