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**Johannes Hofscheier, Lukas Katthän\*** (katth001@umn.edu) and **Benjamin Nill**. *Ehrhart Theory for spanning lattice polytopes.*

A lattice polytope is called spanning if its lattice points affinely span the ambient lattice. In this talk we describe a new result in the Ehrhart theory of lattice polytopes that implies that the  $h^*$ -vector of a spanning lattice polytope has no inner zeros. This generalizes a recent theorem by Blekherman, Smith, and Velasco, and implies a polyhedral consequence of the Eisenbud-Goto conjecture. We also discuss how this relates to unimodality questions of lattice polytopes and previously achieved results on lattice polytopes of given degree. (Received March 21, 2017)