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*Algebraic Aspects of Lattice Simplices.*

Given a lattice polytope  $P$ , there are various open problems of interest related to the integer decomposition property, Ehrhart  $h^*$ -unimodality, Ehrhart positivity, and rationality of the Poincare series for the associated semigroup algebra. In this talk, we will survey some recent results in this area, based on joint work with Brian Davis, Rob Davis, Morgan Lane, and Liam Solus. (Received September 05, 2019)