1116-05-495   **Benjamin Braun*** (`benjamin.braun@uky.edu`), Department of Mathematics, University of Kentucky, Lexington, KY 40506, **Robert Davis**, Michigan State University, and **Liam Solus**, IST Austria and MIT. *Lattice point enumeration, mutations, and Fano lattice simplices.* Preliminary report.

We investigate Fano lattice simplices from the perspective of lattice point enumeration. Properties such as unimodality of Ehrhart h^*-vectors, the integral decomposition property, and combinatorial mutations will be considered. (Received September 04, 2015)