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For an integral convex polytope \$\Pc \subset \RR^N\$ of dimension \$d\$, we call \$\delta(\Pc)= (\delta_0, \delta_1,..., \delta_d)\$ the \$\delta\$-vector of \$\Pc\$ and \$\vol(\Pc)=\sum_{i=0}^d\delta_i\$ its normalized volume. In this paper, we will establish the new equalities and inequalities on \$\delta\$-vectors for integral simplices whose normalized volumes are prime. Moreover, by using those, we will classify all the possible \$\delta\$-vectors of integral simplices with normalized volume 5 and 7.

Ehrhart polynomials of integral simplices

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Akihiro Higashitani

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