

Mathematics Colloquium

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**Polyhedral Theta
Functions, Polyhedral
Gauss Sums, and
Extensions of the Gram
Relations for Polytopes**

Abstract: we extend the famous Gram relations for solid angles of a polytope P : $\sum_{F \in \mathcal{P}} (-1)^{\dim F} \omega_F = 0$. We will first cover a little of the history of solid angles, especially as they relate to polytopes, and then show how to extend their Gram relations, using asymptotics of our polyhedral theta functions.

Wednesday, January 31

4:00-5:00 pm

204 Smith Hall

Please note new date