

**Sinai Robins**

Temple University

will speak on

**Polyhedral theta functions, polyhedral Gauss sums,  
and extensions of the Gram relations for solid angles  
of polytopes**

ABSTRACT: We extend the famous Gram relations for solid angles of a polytope  $P$ , which say that:  $\omega_P = \sum_{F \in P} (-1)^{\dim F} \omega_F = 0$ .

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 the polyhedral theta functions.

MONDAY, FEBRUARY 5, 2007

LECTURE AT 4:00 PM (#)

COFFEE, TEA, AND REFRESHMENTS FROM 3-5 PM

ROOM 617, WACHMAN BUILDING

DEPARTMENT OF MATHEMATICS