TEMPLE UNIVERSITY GEOMETRY SEMINAR

Peter Storm

University of Pennsylvania

will speak on

Finding faithful linear representations with dense image

ABSTRACT: Given a discrete group H and a topological group (or Lie group) G, geometers have traditionally been interested in faithful representations $H \to G$ with discrete image. Recently people have begun looking at faithful representations $H \to G$ with *dense* image, the complementary case. Stated differently, what are the topologies on H with completion isomorphic to G? I'll focus on the simplest nontrivial case, where H is a surface group. Here the arguments avoid many technicalities. This is joint work with E. Breuillard, T. Gelander, and J. Souto.

TUESDAY, 30 SEPTEMBER 2008
LECTURE AT 1:10 PM
ROOM 617, WACHMAN BUILDING
DEPARTMENT OF MATHEMATICS