

JOINT DIFFERENTIAL GEOMETRY/PDE AND PROBABILITY SEMINAR

WEDNESDAY, FEBRUARY 16, 2005

PADEL FORD C-36

3:50 PM

Compact Heisenberg manifolds

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Let M be the quotient of the $(2n + 1)$ -dimensional Heisenberg group by a discrete co-compact subgroup; thus M is a strongly pseudoconvex compact CR manifold. We answer the following questions: (1) What are the eigenforms and eigenvalues of the Kohn Laplacians on M ? (2) How can M be realized as the boundary of a bounded domain in a complex manifold? The answer to (1) plays a role in the answer to (2), which reveals an interesting connection with the theory of Abelian varieties.

For more information about this seminar, visit the DG/PDE Seminar Web page (from the Math Department home page, www.math.washington.edu, follow the link **Seminars, Colloquia, and Conferences**).

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