DIFFERENTIAL GEOMETRY/PDE SEMINAR

Wednesday, January 25, 2006
Padelford C-36
3:50-5pm

Generalized Krein formula for Poincaré-Einstein manifolds

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We define a generalized Krein spectral function for a quite general class of even dimensional conformally compact manifolds and we show that a Birman-Krein type formula holds, involving the Kontsevitch-Vishik determinant of the scattering operator. As a consequence we obtain another proof of the Patterson-Perry Theorem on the Selberg zeta function Z(s) in even dimensional convex co-compact hyperbolic manifolds, as well as a functional equation for Z(s) and the value of the determinant of GJMS operators on the boundary in term of Z(s).

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**).