DIFFERENTIAL GEOMETRY/PDE SEMINAR

Wednesday, Marh 6, 2002
Padelford C-36
3:45–4:45 pm

Explicit relation between the asymptotic expansions of the Bergman kernel and the Szegő kernel

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It is known that the Bergman and the Szegö kernels of a strictly pseudoconvex domain admit asymptotic expansions at the boundary in powers (and log) of the defining function of the domain. In this talk, we show that the coefficients of these expansions coincide up to constants, by introducing a one parameter family of kernel functions that gives an analytic continuation between the Bergman and the Szegö kernels.

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