

DIFFERENTIAL GEOMETRY/PDE SEMINAR

FRIDAY, AUGUST 11, 2006

PADEL FORD C-36

11 AM

An AdS/CFT correspondence on complex manifolds with
strictly pseudoconvex boundary

Neil Seshadri

(UNIVERSITY OF TOKYO, JAPAN)

The Anti-de Sitter/Conformal Field Theory correspondence between string and conformal field theories in physics has also attracted a great deal of recent interest from mathematicians. In this talk I'll look at what could be considered one of its manifestations in complex / CR geometry. I'll introduce CR-geometric analogues of renormalised volume, conformal anomaly, renormalised Chern-Gauss-Bonnet formula, Q-curvature etc., and compare and contrast them with their counterparts from conformal geometry. Crucial to the construction will be Fefferman's Einstein-Kaehler metric and the ambient pseudohermitian connection of Graham and Lee.

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**).

The University of Washington is committed to providing access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation contact the Disability Services Office at least ten days in advance at: 206-543-6450/V, 206-543-6452/TTY, 206-685-7264 (FAX), or dso@u.washington.edu.