DIFFERENTIAL GEOMETRY/PDE SEMINAR

FRIDAY, JANUARY 6, 2006
PADELFORD C-401
3:50-5PM

Comparison geometry II

Jack Lee
(UW)

These will be elementary expository talks designed for students who have just completed the first quarter of the Geometric Structures course. I will present some of the basic theorems of comparison geometry, including the Bonnet/Myers theorem, Cartan-Hadamard theorem, Rauch Comparison Theorem, Bishop Comparison Theorem, and perhaps one or two others. The approach will be based on matrix Riccati equations, as explained for example in "Riemannian Geometry" by P. Petersen; this is a significant improvement on the methods and results of my "Riemannian Manifolds" textbook.

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**).