CUNY Ph.D. Program in Mathematics

Math 710 Differential Geometry: Spring 2014

Course Information:

This course is the second semester of a one year course in the differential geometry of manifolds. The majority of this course will be on topics of Riemannian geometry including metrics, connections, geodesics, curvature, jacobi fields, and applications to topology such as the Gauss-Bonnet theorem. But, for completeness of the two course sequence, we will begin the course with some topics in Lie theory.

- Location: Tuesday, Thursday 10-11:30. Room TBA.
- Textbook: "Riemannian Manifolds: An Introduction to Curvature" by John M. Lee. Springer Graduate Text. We'll also use Lee's "Intro. to Smooth Manifolds".
- Grading: The final grade will be based on the midterm, final exam, and several homework assignments.

Contact Information:

- Instructor: Scott Wilson
- Email: scott dot wilson AT qc.cuny.edu
- Office hours: TBA, by appoint, before or after class.