

# DIFFERENTIAL GEOMETRY/PDE SEMINAR

WEDNESDAY, DECEMBER 3, 2008

PADEL FORD C-36

3:45–5PM

Regular loops in Alexandrov geometry

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An Alexandrov space is an intrinsic metric space with curvature bounded from below in the triangle comparison sense. The study of Alexandrov spaces was initiated by Burago-Gromov-Perelman in early 90's, and many curvature comparison type results in Riemannian geometry have been generalized to Alexandrov geometry. We will discuss regular loops with the minimal total turning angle on an Alexandrov space that are the counterpart of 'closed' geodesics on a Riemannian manifold, and relations among the length, the total turning angle of a regular loop with the volume and diameter of the Alexandrov space.

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

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