# DIFFERENTIAL GEOMETRY/PDE SEMINAR

Wednesday, December 6, 2017
Padelford C-36
4PM–5PM

## Strictly pseudoconvex domains in $C^2$ with obstruction flat boundary

### Sean Curry

### (UC San Diego)

Abstract: On a bounded strictly pseudoconvex domain in $C^n, n > 1$, the smoothness of the Cheng-Yau solution to Fefferman's Monge-Ampere equation up to the boundary is obstructed by a local curvature invariant of the boundary. For bounded simply connected domains in $C^2$ with connected boundary, we motivate and consider the problem of determining whether the global vanishing of this obstruction implies biholomorphic equivalence to the unit ball.

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**).