

DIFFERENTIAL GEOMETRY/PDE SEMINAR

WEDNESDAY, MARCH 5, 2014

PADELFORD C-36

3:50PM–5PM

Gluing of a Bubble to a degenerate metric

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We investigate the existence of sign-changing blowing-up solutions to scalar-curvature equations by gluing a Bubble to a given ground state. The main difficulty occurs when the ground-state is degenerate and the associated critical manifold is also degenerate. Using analytic expansions, we prove that the construction can be carried out for isolated ground states. This is joint work with Jérôme Vétois (Nice).

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**).

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