

IP/DIFFERENTIAL GEOMETRY/PDE SEMINAR

TUESDAY, MARCH 29, 2016

LOW 115

4–5PM

Numerical Computation of Semiclassical Dynamics in Several
Space Dimensions

George Hagerdorn

(VIRGINIA TECH)

We present techniques for solving the time-dependent Schrodinger equation for small values of the Planck constant and/or fairly high space dimensions. The ideas follow the algorithm of Faou, Gradinaru, and Lubich, but use a new technique to avoid an unstable part of the computation.

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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