

## **Seminar in Nonlinear Systems**

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The City University of New York

*O.D.E. of earthquake curves and norms on  
earthquake measures, quasi-symmetric  
homeomorphisms and Zygmund functions*

Thursday, May 1, 2003

3:30 pm

Morton 101

*Abstract:* We will first recall Thurston's earthquake theorem and earthquake measures induced by earthquake maps. Then we study the ODE for the earthquake curves determined by earthquake measures. In the third part, we report the new results for the quantitative relationships among the norms on earthquake measures, quasi-symmetric circle homeomorphisms and Zygmund functions. Time permitting, we will discuss in the fourth part the correspondence between the circle diffeomorphisms in Sullivan's classification and vanishing conditions on the induced earthquake measures.

Jun Hu is Assistant Professor of Mathematics at Brooklyn College and The Graduate Center of the City University of New York. He received his Ph.D. in 1995 from The Graduate Center of CUNY. Prior to joining Brooklyn College, Professor Hu held positions at the University of Rutgers at Newark, the University of Maryland, SUNY at Stony Brook, and the Courant Institute at NYU.

Refreshments at 3:15pm