

*Department of Mathematics,  
University of California, San Diego*

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# **Differential Geometry Seminar**

**Prof. Jie Qing**

UC Santa Cruz

## **Scattering on conformally compact Einstein manifolds**

**Abstract:**

I will talk about the scattering operators on conformally compact Einstein manifolds based on the work of Graham and Zworski. A conformally compact Einstein manifold comes with a conformal manifold as its conformal infinity. I will show scattering operators, as spectral property of the bulk space, in many ways are related to global conformal property of the infinity. I will in particular talk about a recent joint work with Colin Guillarmou on the relation of the location of real scattering poles and the Yamabe constant of the conformal infinity.

Hosts: Lei Ni and Ben Weinkove

**Wednesday, November 18, 2009**

**4:00 PM**

**AP&M 6402**

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