

**Viviane Baladi**

**Title: The spectrum of Sinai billiard flows**

**(Joint work with M. Demers and C. Liverani)**

Abstract: Sinai billiard maps in dimension two have been proved to be exponentially mixing by L.-S. Young twenty years ago. Recent work of Demers and Zhang gives a spectral gap for their natural transfer operators on a suitable anisotropic Banach space. Understanding Sinai billiard flows is more difficult. I will present recent results on the spectrum of the generator of the semi-group of their transfer operators on an anisotropic space.