**Institut Henri Poincaré**
11 rue Pierre et Marie Curie, 75231 Paris cedex 05
**String Theory in Greater Paris**

**Rencontres Théoriciennes**
**"Supergravité, théorie des cordes et théorie M"**

***Jeudi 1 Juin 2017, 11:45***

# Mike Blake

*MIT*

## Diffusion and Chaos in Holographic Matter

*In this talk I will discuss recent developments that have suggested new connections between the transport properties of strongly interacting matter and the field of quantum chaos. In particular I will describe how in many holographic theories there are simple relationships between the thermoelectric diffusion constants and the butterfly velocity, which describes the speed at which quantum chaos propagates.*

**Institut Henri Poincaré, salle 314, 3ème étage**