**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 30 Janvier 2025, 10:00***

# Rodolfo Russo

***Queen Mary University***

## The gravitational eikonal : from black-holes to strings (and back)

*I will review the eikonal exponentiation in the context of high-energy, large impact parameter scatterings in gravitational theories. This technique can be applied to different theories, from models of gravitationally interacting compact objects to strings and D-branes. I will show through various examples how this approach can be used to uncover different physical phenomena, from conservative observables to more complicated dissipative effects. I will conclude by highlighting some long-standing open problems in this field that I think are of particular conceptual interest.*

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