

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, 3<sup>ème</sup> étage**

Retrouvez les activités de la communauté parisienne de théorie des cordes sur  
<http://string.lpthe.jussieu.fr>  
La liste de tous les séminaires en région parisienne est disponible sur  
<http://string.lpthe.jussieu.fr/semparis>

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