

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 7 Novembre 2019, 11:40

Harold Erbin

ASC LMU Munich

Topics in string amplitudes

In this talk, I will present two recent results on string amplitudes. First, I will explain how a correct computation of the 2-point amplitude on the sphere matches the expected result from QFT, instead of vanishing as it was long believed. Second, I will outline the proofs of primitive analyticity and crossing symmetry for superstring amplitudes to all orders in perturbation theory. Since these properties are related to locality and causality in position space in standard QFTs, this opens a possible window on the nature of the interaction non-locality and how it fits with the usual QFT axioms.

Institut Henri Poincaré, salle 314, 3^{ème} 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>
