Institut Henri Poincaré

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String Theory in Greater Paris

Rencontres Théoriciennes

"Supergravité, théorie des cordes et théorie M"

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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 withing the usual QFT axioms.

Institut Henri Poincaré, salle 314, 3ème étage

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