Laboratoire de Physique Théorique et Hautes Energies

Unité Mixte de Recherche (UMR 7589) de Sorbonne Université et du CNRS

SEMINAIRE du LPTHE

Vendredi 19 Avril 2019, 11:00

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IPhT Saclay

The mathematical structure of superstring amplitudes

The perturbative approach to the computation of superstring amplitudes leads to considering integrals over spaces of surfaces of fixed genus. The kind of surface considered is different when one deals with open strings or closed strings. In this talk I will describe how several recent breakthroughs in the study of genus zero and genus one have revealed a beautiful mathematical structure. This sheds more light on some general features of string theory, such as the relation between the scattering of open and closed strings.

Bibliothèque du LPTHE, tour 13/14, 4ème étage

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