Laboratoire de Physique Théorique et Hautes Energies

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

SEMINAIRE du LPTHE

Mercredi 1 Fevrier 2023, 15:00

James Drummond

University of Southampton

Scattering amplitudes and their geometric properties

I will review a number of approaches to understanding properties of scattering amplitudes and their applications. I will then focus on the relation of the geometry of the kinematical space to the analytic behaviour of amplitudes as functions on this space. We will take planar N=4 super Yang-Mills theory as a guiding example, where cluster algebras of Grassmannian spaces play a central role. This suggests a number of directions for generalising to non-supersymmetric and non-planar cases.

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

N.B. La liste de tous les séminaires en région parisienne est disponible sur
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