



The Galileo Galilei Institute For Theoretical Physics

Centro Nazionale di Studi Avanzati dell'Istituto Nazionale di Fisica Nucleare

Arcetri, Firenze



Workshop

Mathematical Structures in Scattering Amplitudes

Aug 26, 2024 - Sep 27, 2024

Conference

The Mathematics behind Scattering Amplitudes

Aug 26, 2024 - Aug 30, 2024

Organizers

N. Arkani-Hamed (Institute for Advanced Study, USA)
R. Britto (Trinity College Dublin, Ireland)
L. Ferro (University of Hertfordshire, UK)
T. Lukowski (University of Hertfordshire, UK)
L. Mason (University of Oxford, UK)
M. Spradlin (Brown University, USA)

Topics

- Algebraic geometry for Feynman and string integrals
- Amplituhedra, grassmannians and positive geometry
- Celestial and twisted holography
- Cluster algebras, symbols calculus and associated bootstraps
- Double copy and color/kinematic duality
- Conventional holography and integrability methods
- Twistor and ambitwistor-strings, sigma models and actions