

XVth Quark Confinement and the Hadron Spectrum



Contribution ID: 236

Type: Oral

Scattering Amplitudes, strong coupling scales and the gauge-gravity double copy in extra dimensions

Monday 19 August 2024 15:00 (30 minutes)

The double copy mechanism relates the scattering amplitudes of Yang-Mills theories to the theory of gravity. In this talk I will demonstrate how gravitational amplitudes in arbitrary dimensions can be obtained via the double copy prescription of gauge theories. I will further demonstrate that the prescription holds even for compactified gauge theories, which can be related to compactified gravitational theories, and present the equivalent strong coupling scales of both theories.

Author: SENGUPTA, Dipan (University of New South Wales, Sydney, Australia)

Presenter: SENGUPTA, Dipan (University of New South Wales, Sydney, Australia)

Session Classification: Strongly-Coupled Theories and Dark Matter

Track Classification: G: Strongly-Coupled Theories and Dark Matter