



ICTS Seminar

Title : The classical double copy in Anti-de Sitter spacetimes

Speaker : Siddharth G Prabhu, ICTS – TIFR, Bangalore

Date : Wednesday, September 18, 2019

Time : 3:00 PM

Venue : Nambu Discussion Room (Right), ICTS Campus, Bangalore

Abstract : The double copy refers to a set of correspondences between

observables, such as scattering amplitudes, of seemingly different theories, for example, gauge and gravity theories. The classical double copy is an attempt to extend these relations to classical solutions. This assumes particular theoretical and calculational significance in the context of the AdS/CFT correspondence. We initiate a formulation of the classical double copy for general perturbations of the AdS metric in arbitrary dimensions. In particular, we show that linearized

from linearized solutions of Yang-Mills fields and biadjoint scalars around the same background. We will also comment on progress towards non-linear extensions of this correspondence.

solutions of the Einstein equations in AdS can be obtained

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