

## ICTS Seminar

Title : Double Soft Limit of Graviton Amplitude from CHY formalism

Speaker: Arnab Priya Saha, Institute of Mathematical Sciences, Chennai

Date : Tuesday, July 25, 2017

Time : 11:00 AM

Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore

Abstract : Following up on the recent work of Cachazo, He and Yuan [arXiv:1503.04816], we derive the double soft graviton theorem in perturbative gravity. We show that the double soft theorem derived using CHY formula precisely matches with the perturbative computation involving Feynman diagrams. In particular, we find how certain delicate limits of Feynman diagrams play an important role in obtaining this equivalence. Our results agree with that obtained via BCFW recursion relations in arXiv:1504.05558.

The talk will be based on arXiv:1607.02700, 1702.02350.