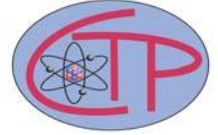




NEW YORK CITY COLLEGE OF TECHNOLOGY
Physics Department
Center for Theoretical Physics



To Be Held on **Tuesday, August 23 at 2 PM** in
Namm, Room 823

Physical and Mathematical aspects of Scattering Amplitudes

We study recursive techniques for efficient computation of perturbative scattering amplitudes in gauge theory, in particular, tree and one-loop processes in QCD theory. By using the spinor-helicity formalism, we discuss BCFW recursion to get amplitudes at tree-level and the unitarity of the S-matrix to get the cut-constructible and rational parts at one-loop.

Presented by:

William J. Torres Bobadilla

Universita di Padova, Italy

Simplified approach to multiloop integrand decomposition

We discuss the features of a new approach to the integrand decomposition of scattering amplitudes at multiloop level, which relies on the interplay of four-dimensional kinematics and dimensionally regulated space-time.

Presented by:

Amedeo Primo

Universita di Padova, Italy