

The Modern Physics of Compact Stars and Relativistic Gravity

18-21 Sept. 2013, Yerevan, Armenia



Contribution ID: 12

Type: **not specified**

Aspects of Trans-Planckian Scattering

We study scattering processes at the center of mass energies much larger than the Planck scale, and at small impact parameters. Using the S-matrix formalism for gravity, we investigate the formation and evolution of black hole intermediate states. We assume that the gravitational S-matrix obeys the properties of unitarity, analyticity, crossing and causality.

Primary author: Dr GRIGORYAN, Hovhannes (New York University)

Presenter: Dr GRIGORYAN, Hovhannes (New York University)