DESY THEORY WORKSHOP
26 - 29 September 2017
Fundamental physics in the cosmos:
The early, the large and the dark Universe
DESY Hamburg, Germany

Contribution ID: **112**   Type: **not specified**

BMS4 at spatial infinity

Thursday 28 September 2017 15:20 (20 minutes)

A few years ago Strominger argued that the BMS4 algebra, usually defined at null infinity, should be regarded as a true symmetry of gravitational evolution of asymptotically flat space-times. This implies the existence of an infinite tower of conserved quantities and brings new insight to various problems like gravitational scattering or black-holes evaporation. In this talk, I will show how BMS4 algebra arises as a symmetry at spatial infinity and prove the associated conservation laws conjectured by Strominger

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Session Classification: Parallel Session: Strings & Mathematical Physics

Track Classification: String & Mathematical Physics