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String Theory in Greater Paris

Rencontres Théoriciennes

"Supergravité, théorie des cordes et théorie M"

Jeudi 4 Mai 2017, 11:45

Andrea Campoleoni

ULB

A glimpse into the infrared physics of higher-spin particles

I will revisit Weinberg's constraints on the S-matrix of massless higher-spin particles from the viewpoint of the asymptotic symmetries at null infinity displayed by the corresponding fields. The analysis extends to arbitrary values of the spin the relation between asymptotic symmetries and soft theorems recently explored in gravity, and I will discuss the hints it provides on possible higher-spin extensions of the BMS symmetry.

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