Institut Henri Poincaré

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String Theory in Greater Paris

Rencontres Théoriciennes

“Supergravité, théorie des cordes et théorie M”

Jeudi 2 Novembre 2023, 11:45

Ruben Monten

CERN

A path integral for the S-Matrix

I will review a formulation of the S-matrix in terms of a path integral that is a functional of asymptotic boundary conditions. This approach, which was originally proposed by Arefeva, Faddeev and Slavnov, bears resemblance to the AdS partition function. I will show that it is well-suited to analyze the asymptotic symmetries, derive soft theorems, and calculate particle production in curved spacetime.

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