Institut Henri Poincaré
11 rue Pierre et Marie Curie, 75231 Paris cedex 05

String Theory in Greater Paris

Rencontres Théoriciennes

"Supergravité, théorie des cordes et théorie M"

Jeudi 11 Fevrier 2021, 11:00

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Back to the future with the epsilon expansion

The epsilon expansion is a well-known framework in quantum field theory to construct weakly-coupled fixed points of the RG flow. Nevertheless, little is known about the landscape of theories it describes, beyond some well-known CFTs like the Ising and the O(N) models. In this talk we revisit the problem of classifying multiscalar fixed points, in the process proving new results their spectra. Moreover, we show that there is no weakly-coupled gauged fixed point with fewer than 183 flavors.

Institut Henri Poincaré, salle 314, 3ème étage