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Statistical chaos in excited string scattering (Diptarka Das)

Sunday 9 February 2025 12:15 (45 minutes)

Speaker: Diptarka Das

Abstract : We review recent amplitude results in tree level bosonic string theory that involve highly excited string states. We show how random matrix correlations are present in these scattering amplitudes. We conclude by highlighting certain semiclassical and asymptotic features of these amplitudes which lend support to the Horowitz-Polchinski-Susskind black hole correspondence.