

Stringy Resolutions of Null Singularities

Tuesday, 15 June 2021 08:20 (40 minutes)

I will discuss two types of singularities in amplitudes caused by null geodesics in anti-de Sitter spacetime and their resolutions by stringy effects. Certain Landau singularities are resolved by the Gross-Mende effect, and null singularities near the black hole photon sphere are resolved by stringy tidal effects. Interpretations of these singularities and their resolutions in the context of the AdS/CFT correspondence and their generalization to asymptotically flat spacetime will also be discussed.

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