



Contribution ID: 735

Type: **not specified**

Scalar scattering amplitudes: zero loci, factorization, and the double copy

Tuesday 14 May 2024 17:15 (15 minutes)

We demonstrate how the scattering amplitudes of some scalar theories, scaffolded general relativity, multi-flavor DBI, and the special Galileon, vanish at multiple loci in momentum space that include and extend their soft-limit behaviors. We elucidate the factorization of the amplitudes near the zero loci into lower point amplitudes. We explain how the occurrence of the zero loci in these theories can be understood in terms of the double copy formalism.

Mini Symposia (Invited Talks Only)

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Session Classification: Quantum Field & String Theory

Track Classification: Quantum Field & String Theory