

Cosmological Dressing Rules

Wednesday 12 February 2025 15:30 (45 minutes)

The basic observables in cosmology are known as in-in correlators. Recent calculations have revealed that in-in correlators in de Sitter space exhibit hidden simplicity stemming from a close relation to scattering amplitudes in flat space. In this talk, I will explain how to make this property manifest by dressing flat space Feynman diagrams with certain auxiliary propagators. Such dressing rules can be derived for a broad range of scalar theories, including those with IR divergences. If time permits, I will sketch how to extend this to spinning fields and formulate the double copy for in-in correlators.

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