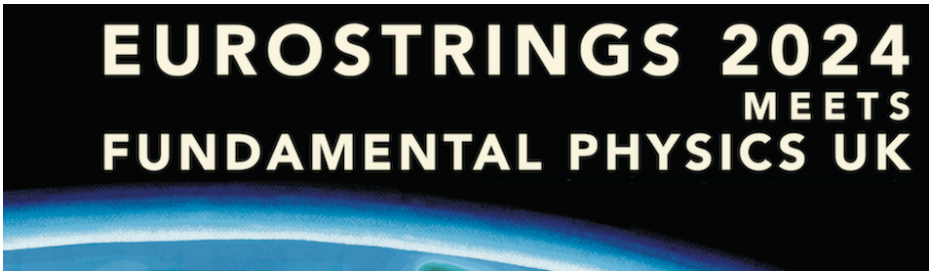

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Hidden Simplicity of Cosmological Correlators

Wednesday 4 September 2024 11:30 (20 minutes)

Cosmological observations suggest that the early universe was approximately described by a de Sitter geometry. In this background, the natural observables are in-in correlators, which can be computed by squaring the wavefunction of the Universe. Surprisingly, it turns out that in-in correlators are often much simpler than wavefunction coefficients and are closely related to scattering amplitudes in flat space. In this talk, I will make these statements more precise and describe new approaches which make the simplicity of in-in correlators manifest.

Link to publication (if applicable)

https://arxiv.org/pdf/2312.13803.pdf

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