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O(N) scalar field model in de Sitter space: beyond the leading IR approximation

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Quantum field theory on curved space-times is a very powerful framework for the study of quantum phenomena in situations where gravitation itself can be treated classically. Of special interest is the study of interacting quantum fields in de Sitter space-time, where corrections computed using the standard perturbative expansion are plagued by contributions that secularly grow with time and/or infrared divergences. This has motivated the consideration of alternative techniques. In this talk I will summarize recent work on this topic in relation to the development of non-perturbative methods to compute correlation functions in a systematic way.

Summary

Primary author: Dr LOPEZ NACIR, Diana Laura (CERN)

Presenter: Dr LOPEZ NACIR, Diana Laura (CERN)

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