



Dipartimento di Fisica
Università di Cagliari
INFN, Sezione di Cagliari



HIGH ENERGY PHYSICS COLLOQUIA

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WORLDLINE FORMALISM AND NONCOMMUTATIVE QFT

Abstract

The Worldline Formalism offers an elegant alternative to Feynman's diagram analysis of a quantum field theory. In this talk we will offer an introduction to this method both in configuration and in the not so exploited phase space. To show its strengths, we will take as example a scalar ϕ^4 model in commutative and noncommutative spaces.

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