

Katedra teoretickej fyziky FMFI UK

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Slovenská fyzikálna spoločnosť

Vás pozývajú na ODBORNÝ SEMINÁR:

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Fuzzy field theories in the string modes formalism

Abstrakt: Fuzzy spaces are, among other things, toy models for spaces with a discrete structure at small distances. As such, they provide a laboratory to study the consequences of this discreteness on the properties of physical theories, such as the theory of scalar fields. The standard approach to this theory is very similar to the usual treatment of field theories on continuous spaces - momentum basis, Feynman diagrams, and loop integrals. In this talk, we present a different formulation of the scalar field theory on the fuzzy sphere - in terms of the string modes, which are functions optimally localized in position and momentum space. We show how this greatly simplifies the computation of the loop contributions in position space and provides some new insights into the structure of the effective action of the theory.

Seminár sa bude konať online dňa

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Srdečne pozývame všetkých záujemcov.



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