

Institut Ruđer Bošković
ZAVOD ZA TEORIJSKU FIZIKU
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SEMINAR ZAVODA ZA TEORIJSKU FIZIKU

(Zajednički seminari Zavoda za teorijsku fiziku,
Zavoda za eksperimentalnu fiziku IRB-a i Fizičkog odsjeka PMF-a)

Twisted equations of motion

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Abstract:

A natural quantization of manifolds can be described in the language of noncommutative geometry. One of the possible quantization procedures is the deformation by the Drinfeld twist. Within the twist formalism the noncommutative deformations are introduced by twisting the underlying symmetry of the theory and then consistently applying the consequences of the deformation on the geometry of spacetime itself. The twisted symmetry does not have the usual dynamical significance and, in particular, there is no Noether procedure associated with it. However there is a possibility to obtain the corresponding deformation of equations of motion within the twist formalism.

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