



Prirodno-matematički fakultet - Niš
Katedra za teorijsku fiziku i
Kancelarija SEENET-MTP Mreže - Niš



Organizuju predavanje:

INTEGRABLE MANY-BODY SYSTEMS AND BIANCHI COSMOLOGICAL MODELS

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Abstract:

It is shown that the geodesic motion on the $GL(n, \mathbb{R})$ group manifold endowed with a bi-invariant metric corresponds to a generalizations of the n -particle Calogero-Moser-Sutherland model and the non-periodic Toda chain. Using the methods of Hamiltonian reduction these many-body systems are related to Bianchi cosmological models.

Predavanje se realizuje u okviru OEA-ICTP programa "Cosmology and Strings".

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