Institut Ruđer Bošković
ZAVOD ZA TEORIJSKU FIZIKU
Bijenička c. 54
Zagreb, Hrvatska

SEMINAR ZAVODA ZA TEORIJSKU FIZIKU

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

Double Field Theory and alpha prime corrections

Eric Lescano
IAFE-CONICET-UBA, Buenos Aires, Argentina

Datum: petak, 23. ožujka 2018.
Vrijeme : **15 sati c.t.**
Mjesto: IRB, predavaona I krila

Abstract:

String Theory (ST) is an attempt to make General Relativity and Quantum mechanics live together. The universal massless low energy effective action of String Theory coincides with a supergravity action, a particle theory where the fundamental fields involve a metric, a scalar field and a two-form. A difficult task in ST is to find higher-order derivative corrections (alpha prime corrections) to this action that respect the symmetries of ST. On the other hand, Double Field Theory (DFT) is a proposal to incorporate T-duality, a distinctive symmetry of string theory, as a symmetry of a field theory defined on a double configuration space. The idea of this talk is introduce some basics ideas of supergravity and DFT, and show how the latter could be a powerful tool to find alpha prime corrections.

Voditelj seminara:
Andjelo Samsarov
$\langle asamsarov@irb.hr \rangle$