

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)

**Standard Model and Graviweak Unification with
(Super)Renormalizable Gravity. Mirror universe idea.**

Holger B. Nielsen

The Niels Bohr Institute, Copenhagen, Denmark

Datum: ponedjeljak, 15. prosinca 2014.

Vrijeme : **14:00 sati c.t.**

Mjesto: IRB, dvorana I krilo

Abstract:

Based on a formulation of Plebansky for gravity we develop the self-consistent $Spin(4, 4)$ -invariant model of the unification of gravity with weak $SU(2)$ gauge and Higgs fields in the visible and invisible sectors of our Universe. We consider a general case of the Graviweak unification, including the higher-derivative super-renormalizable theory of gravity, which is unitary, asymptotically-free and perturbatively consistent theory of the quantum gravity.

Voditeljica seminara:
Kornelija Passek-Kumerički
[⟨passek@irb.hr⟩](mailto:passek@irb.hr)