

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 i Zavoda za teorijsku fiziku PMF-a)

Local Conformal Symmetry and its Violation at Quantum Level

Ilya L. Shapiro

Departamento de Fisica – ICE, Universidade Federal de Juiz de Fora, MG, Brazil

Datum: ponedjeljak, 28. siječnja 2008.

Vrijeme : 15 sati c.t.

Mjesto: IRB, predavaona I krila

Abstract:

The purpose of this talk is to present a short review of the local conformal symmetry in curved $4d$ space-time. Furthermore we discuss the conformal anomaly, anomaly-induced effective actions and existing ambiguities. Despite the conformal symmetry is always broken at quantum level, it is very helpful in constructing useful and interesting approximations for investigating quantum corrections. These quantum corrections represent an appropriate basis for a number of applications in cosmology and black hole physics.

Voditeljica seminara: Dr. Kornelija Passek-Kumerički
(passek@thphys.irb.hr)