

Department of Theoretical Physics

Special Free Meson Seminar

<i>Speaker</i>	:	R. Srikanth Hundi (IACS, Kolkata)
<i>Topic</i>	:	Bulk fields and fermion mass hierarchy in multiply warped braneworld models
<i>Day, Date & Time</i>	:	Wednesday, December 21, 2011 at 11:00 a.m.
<i>Place</i>	:	Theoretical Physics Seminar Room (A304)

Abstract

The hierarchy between the Planck and electroweak scales can be elegantly explained in the 5-dimensional setup of Randall-Sundrum (RS) model. However, introducing the standard model fields into the bulk of the RS model may lead to constraints from precision electroweak tests and also bulk Higgs problem. We have solved some of these problems by extending the RS model to multiply warped braneworld models. These models have more richness that the precision electroweak constraints can be avoided. Moreover, we have also shown that the hierarchical mass pattern of the standard model fermions can be accommodated in these class of models.

(Nilmani Mathur)