Area Seminar

Title	Renormalization Group Evolution of the Non-Unitary operator
Date and Time	08/06/2012 16:00:00
Speaker	Subrata Khan Physical Research Laboratory, Ahmedabad
Area	Theoretical Physics
Venue	Room No. 469

Abstract

Integrating out a heavy field gives rise to effective Lagrangian containing higher dimensional operators. In the context of Type-I seesaw mechanism, integrating out the heavy right handed neutrino field leads to unique dimension five operator which gives the tree level neutrino mass term. Apart from these there are dimension six operators that can have important implications. A linear combination of two such operators gives rise to the non-unitarity in the lepton mixing matrix, UPMNS. We discuss the origin of non-unitarity at the high scale and its evolution through renormalization group running.