SEMPARIS – Séminaires en région parisienne

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Seminar of the theory group of APC

Mardi 4 Avril 2017, 14 :00
APC, 483 A - Malevitch
Domaines : hep-th

Titre : *Long lived light scalar in the minimal left-right symmetric model*

Orateur : **Zhang Yongchao (Université Libre de Bruxelles)**

Résumé : *In the minimal left-right symmetric model which could accommodate the tiny neutrino masses via TeV seesaw mechanism, the neutral scalar from the right-handed symmetry breaking sector could be much lighter than the electroweak scale. We discuss the constraints on this particle from low-energy flavor observables, e.g. meson oscillations and rare decays, and find that such a light particle is necessarily long-lived, and can be searched for at the LHC via displaced signals of a collimated photon jet, if its mass is of order GeV scale. This decay mode provides a new test of TeV scale left-right model.*