

FCNC PHENOMENOLOGY OF EXTRA DIMENSIONS

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4:00 P.M. NSH 415

We have studied manifestation of extra dimensions in rare processes. The study of flavour changing neutral current induced rare processes offer by far the most sensitive and uncontroversial test for extra-dimensional extensions of the SM. Before their direct detection on collider beyond SM effects may manifest themselves in rare processes.

Our attention was devoted to lepton flavor violation processes and neutral B-meson double radiative decays in frame of extra dimensional model. We find a small decrease relative to the standard model predictions in case of B-meson double radiative decays; QCD corrections lead to an enhancement in the branching ratios and CP asymmetries, but no more than modest ones.

We have investigated the role of extra dimensions in the lepton flavour violation processes. We have estimated lepton flavour violation processes rates and concluded that three body decays seem more favourable then radiative one.

Particle
Physics
Seminar

All interested
persons are
cordially
invited to
attend.