

Renormalisation running of masses and mixings in UED models

Thursday, 6 December 2012 15:00 (30 minutes)

We review the Universal Extra-Dimensional Model compactified on a S^1/Z_2 orbifold, and the renormalisation group evolution of quark and lepton masses, mixing angles and phases both in the UED extension of the Standard Model and of the Minimal Supersymmetric Standard Model. We consider two typical scenarios: all matter fields propagating in the bulk, and matter fields constrained to the brane. The resulting renormalisation group evolution equations in these scenarios are compared with the existing results in the literature, together with their implications.

Summary

This could run either as a theory parallel talk, or if Jean wants it modified, as a review of loop calculations for students (may be a bit high level for them though). My student Ammar, should his financial support application be approved, would present a poster on the same sort of material.

Primary author: Dr CORNELL, Alan (School of Physics, University of the Witwatersrand)

Presenter: Dr CORNELL, Alan (School of Physics, University of the Witwatersrand)

Session Classification: Parallel Session XII