Contribution ID: **16** Type: **not specified**

RGE Behaviour of SUSY with a U(2)^3 symmetry

Thursday 6 December 2012 14:00 (25 minutes)

The first LHC results seem to disfavor any constrained MSSM realization, with universal conditions at the SUSY-breaking scale. A more motivated scenario is given by split-family SUSY, in which the first two generations of squarks are heavy, compatible with a U(2)^3 flavour symmetry. We consider this flavour symmetry to be broken at a very high scale and study the consequences at low energies through its RGE evolution. Initial conditions compatible with a split scenario are found, and the preservation of correlations from minimal U(2)^3 breaking are checked. The various chiral operators in $\Delta F = 2$ processes are analyzed, and we show that, due to LHC gluino bounds, the (LL)(RR) operators can not always be neglected.

Authors: BLANKENBURG, Gianluca; JONES PEREZ, Joel (Universitat de Valencia)

Presenter: JONES PEREZ, Joel (Universitat de Valencia)

Session Classification: P11 –NEUTRINOS AND FLAVOUR