Contribution ID: **32** Type: **not specified**

SUSY_FLAVOR: a computational tool for FCNC and CP-violating processes in the MSSM

Monday 11 April 2011 11:40 (25 minutes)

I present SUSY_FLAVOR – a library of programs that calculate important leptonic and semi-leptonic low-energy observables in the general R-parity conserving MSSM. Currently the code gives predictions for the K0-bar K0, D-bar D, B_d-bar B_d and B_s-bar B_s mixing parameters; B to X_s gamma, B_{s,d} to l+ l-, K0_L to pi nu-bar nu and K+ to pi+ nu-bar nu decay branching ratios; and the electric dipole moments of the leptons and the neutron. All these quantities are calculated at one-loop level (with some higher-order QCD corrections included) in the exact sfermion mass eigenbasis. I discuss also how to include resummation of higher order chirally enhanced corrections in the planned next version of the library.

Author: ROSIEK, Janusz (IFT UW)

Presenter: ROSIEK, Janusz (IFT UW)

Session Classification: SUSY 1