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The MSSM in the decoupling limit

Wednesday 17 April 2013 17:04 (22 minutes)

In the first part of the talk I discuss the matching of the MSSM on the
two-Higgs-doublet model with focus on the Yukawa interactions. The
determination of the Yukawa couplings of the MSSM superpotential is
explained and the recently computed NLO corrections to quark-quark-Higgs couplings are presented.
The second part of the talk reviews the flavour phenomenology of the 2HDM with generic Yukawa inter-
actions. I first discuss the constraints for FCNC processes and show that, respecting these constraints, the
deviations from the SM expectations in the tauoinc B decays B->tau nu and B->D(ˆ*)tau nu can be explained
simultaneously.

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