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High Energy Physics - Phenomenology

Title: Signatures of bosonic squark decays in non-minimally flavour-violating supersymmetry

Authors: Matthias Bruhnke, Björn Herrmann, Werner Porod
(Submitted on 13 Jul 2010 (v1), last revised 31 Aug 2010 (this version, v3))

Abstract: We investigate couplings of squarks to gauge and Higgs-bosons within the framework of non-minimal flavour violation in the Minimal Supersymmetric Standard Model. Introducing non-diagonal elements in the mass matrices of squarks, we first study their impact on the self-energies and physical mass eigenvalues of squarks. We then present an extensive analysis of bosonic squark decays for variations of the flavour-violating parameters around the two benchmark scenarios SPS1a' and SPS1b. Signatures, that would be characteristic for a non-minimal flavour structure in the squark sector, can be found in wide regions of the parameter space.

Comments:	37 pages, 19 figures, references added, matches version to be published in JHEP
Subjects:	High Energy Physics - Phenomenology (hep-ph)
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