

Impact of squark generation mixing on the search for superpartners at the LHC

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In supersymmetric models beyond minimal flavour-violation, generation-mixing terms in the squark or slepton sector can be sizeable. These off-diagonal entries of the corresponding mass matrices affect both the production and subsequent decay of SUSY particles at colliders. I will discuss scenarios that agree with the relevant experimental constraints and where the branching fractions of squarks into charm- and top-quarks are simultaneously large. I will present recent results on the production of squarks and discuss possibly interesting signatures at the LHC.

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