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Can the Supersymmetric Flavour Problem decouple in case of a Non Standard Supersymmetric Spectrum?

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It has been shown that, in the context of the MSSM, the Supersymmetric Flavour Problem cannot be solved by just letting the sfermions of the first two generations be relatively heavy. The reason is twofold: naturalness of the Fermi scale on one side, need for positive squared stop masses on the other.

The situation is much more promising in models without a light Higgs boson, in which the goal can be met. The prices are: a relatively low messenger scale, semiperturbativity before the GUT scale, and some amount of degeneracy/alignment of order of the Cabibbo angle in the sfermion sector. The resulting phenomenology is quite different from the MSSM one in many respects.

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