

Natural SUSY from a $SU(2) \times U(1)$ Flavor Model

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I am going to present a SUSY flavor model based on a global $SU(2)$ and a gauged $U(1)$ horizontal symmetry. In the fermion sector it closely resembles the successful predictions of the $U(2)$ models for various relations between fermion masses and mixing angles. In the sfermion sector the $U(1)$ acquires a large D-term vev which together with the usual F-term contribution leads to split spectrum in which only gauginos, higgsinos and 3rd generation sfermions are light.

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