## FLASY 2018: 7th Workshop on Flavour Symmetries and Consequences in Accelerators and Cosmology



Contribution ID: 35 Type: not specified

## Effective Theories of Flavor and the Non-Universal MSSM

Thursday 5 July 2018 14:30 (30 minutes)

Flavor symmetries à la Froggatt-Nielsen (FN) provide a compelling way to explain the hierarchies of fermionic masses and mixing angles in the Yukawa sector. In Supersymmetric (SUSY) extensions of the Standard Model where the mediation of SUSY breaking occurs at scales larger than the breaking of flavor, this symmetry must be respected not only by the Yukawas of the superpotential, but by the soft-breaking masses and trilinear terms as well. Here, I will show that contrary to naive expectations, even starting with completely flavor blind soft-breaking in the full theory at high scales, the low-energy sfermion mass matrices and trilinear terms of the effective theory, obtained upon integrating out the heavy mediator fields, are strongly non-universal.

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Session Classification: Afternoon session I