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Cascade Textures in SUSY GUT

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We study cascade textures in supersymmetric grand unified theories. The neutrino Dirac mass matrix of the cascade form can lead the tri-bimaximal generation mixing at the leading order in the seesaw mechanism while the down quark mass matrix of a hybrid cascade form naturally gives the CKM structure. We embed such experimentally favored mass textures into SUSY GUT, which gives relations between the quark and lepton mass matrices. The related phenomenologies, such as the lepton flavor violating processes and leptogenesis, are also investigated in addition to the lepton mixing angles.

Primary author: Dr TAKAHASHI, Ryo (MPIK)

Presenter: Dr TAKAHASHI, Ryo (MPIK)

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