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## An $SU(5) \times S_4 \times U(1)$ supersymmetric model of flavor

*mercredi 9 juillet 2014 18:00 (1 heure)*

This work aims to explain the masses and mixings of the fermionic content in the Standard Model and its supersymmetric extension, using a Family symmetry, in an  $SU(5) \times S_4 \times U(1)$  GUT model. Results incorporate the GST and GS relations for quark and lepton masses and predict Tribimaximal mixing in the neutrino sector, corrected by a higher order operator. The goal is to predict flavour changing processes, relevant for lepton flavour violation and B-physics experiments.

Based on work done with M. Dimou, S. F. King, C. Luhn, C. Hagedorn

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