



ID contributo: 132

Tipo: **Parallel Contributed Talk**

Neutrino mixing by modifying the Yukawa coupling structure of Constrained sequential Dominance

martedì 23 febbraio 2021 10:00 (20 minuti)

In the constrained sequential dominance (CSD), tri-bimaximal mixing (TBM) pattern of the neutrino sector has been explained, by proposing a certain Yukawa coupling structure for the right-handed neutrinos of the model. However, from the current experimental data it is known that the values of the neutrino mixing angles are deviated from the TBM values. In order to explain this neutrino mixing, we first propose a phenomenological model where we consider Yukawa couplings which are modified from that of CSD. Essentially, we add small complex parameters to the Yukawa couplings of CSD. Using these modified Yukawa couplings, we demonstrate that neutrino mixing angles can deviate from their TBM values. We also construct a model, based on a flavor symmetry, in order to justify the modified form of Yukawa couplings of our work.

Collaboration name

Autori principali: Sig. GANGULY, Joy (Indian Institute of Technology Hyderabad); Sig. HUNDI, Raghavendra Srikanth (Indian Institute of Technology Hyderabad)

Relatore: Sig. GANGULY, Joy (Indian Institute of Technology Hyderabad)

Classifica Sessioni: Non Standard Interactions

Classificazione della track: Neutrino Theory and Cosmology