

Model of Electroweak scale active right-handed neutrinos, its extension and phenomenological implications

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Electroweak scale active right-handed neutrinos can be directly produced at the LHC with characteristic signatures such as like-sign dileptons. Accompanying this is a rich Higgs structure such as doubly charged scalars which can also be probed at the LHC. The Pati-Salam extension of the model contains keV sterile neutrinos with astrophysical implications and it is suggested how a fourth family can fit snugly in this framework.

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