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Testing New TeV-scale Seesaw Mediators at the LHC

We are presenting a further elaboration of our recent work on a novel seesaw model which at the tree level corresponds to an effective $\text{dim} > 5$ operator. This enables one to lower the seesaw scale on account of the TeV-scale new states testable at the LHC. Vectorlike non-zero hypercharge fermionic seesaw mediators at hand would have at the LHC an appearance which is different from their commonly discussed Type I and Type III counterparts.

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