

Interpreting recent 2 TeV excesses at the LHC

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Recently both ATLAS and CMS reported several excesses at around 2 TeV. In this talk I will review these intriguing excesses and discuss plausible interpretations of them. In particular, a possible gauge extension of the SM, namely the left-right symmetric model, could accommodate these excess coherently with little tuning. Related theoretical and phenomenological implications including the extended Higgs sector physics, fermion sector (heavy neutrino) physics, neutral gauge boson physics, and electroweak constraints will be addressed as well.

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