

Signatures of Heavy Vectors in Higgsless models

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One or more heavy spin-1 fields may replace the Higgs boson in keeping perturbative unitarity up to a few TeV while at the same time account for the ElectroWeak Precision Tests. We study the Drell-Yan production of heavy vector and axial-vector states of generic Higgsless models at hadron colliders. We analyse in particular the $l+l-$, WZ , and three SM gauge boson final states. In the $l+l-$ case we show how present Tevatron data restricts the allowed parameter space of these models. The two and three gauge boson final states (especially WZ , WWZ , and WZZ) are particularly interesting in view of the LHC, especially for light axial-vector masses, and could shed more light on the role of spin-1 resonances in the electroweak precision tests.

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