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High-mass resonances decaying to heavy particles with ATLAS

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The unprecedented LHC dataset is being explored looking for massive particles decaying in a plethora of ways. We give the latest results from ATLAS on searches for new heavy particles decaying to known particles, $X \rightarrow t\bar{t}$, tb , bb , VV , VH , HH , $H\gamma$, $\tau\tau$, and on searches involving a decay to potential unknown ones, $X \rightarrow ZH'$ and $X \rightarrow AB$. All these analyses use the full run 2 dataset.

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