

DIS 2015 - XXIII. International Workshop on Deep-Inelastic Scattering and Related Subjects

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XXIII International Workshop on
Deep-Inelastic Scattering and
Related Subjects

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Searches for new physics in high-mass resonances with the ATLAS detector at the LHC

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Many new physics scenarios beyond the Standard Model predict the presence of narrow or broad resonances decaying to a pair of fermions (light and heavy quarks, charged leptons and neutrinos) or bosons ($\gamma\gamma$, WW , WZ , ZZ and HH). The high-mass resonant production of top-quark or vector boson pairs is also a good benchmark process for boosted top and massive boson tagging. This talk summarizes ATLAS searches for heavy resonances with LHC Run 1 data.

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