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Searches for resonances decaying to pairs of bosons in ATLAS

Wednesday, 29 November 2023 17:10 (15 minutes)

Several physics scenarios beyond the Standard Model predict the existence of new particles that can subsequently decay into a pair of bosons. These include pairs of SM-like Higgs bosons (HH) as well as asymmetric decays into two scalars of different masses (SH). This talk summarises ATLAS searches for resonant HH and SH production with LHC Run 2 data. A search for a high-mass $Z\gamma$ resonance is also presented.

You are

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