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Rare and exotic decays Z/H decays in ATLAS

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The millions of Z and H bosons created at the LHC allow searches for novel decay signatures. Here we discuss ATLAS searches for possible rare decays: $Z \rightarrow \mu e$, $H \rightarrow J/\psi + \gamma$, and decays to potential new particles: $H \rightarrow a$ chichi, $H \rightarrow Z_d Z_d$, $H \rightarrow Z_a$, $H \rightarrow aa$. Most of these searches involve the full run 2 dataset.

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