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Searches for LFV $H/Z \rightarrow \tau e / \tau \mu$ decays with the ATLAS detector at 8 TeV

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Direct searches for lepton–flavour–violation (LFV) in decays of the Z and recently discovered Higgs boson with the ATLAS detector at the LHC are presented. Three LFV decays are considered: $H \rightarrow e\tau$, $H \rightarrow \mu\tau$, and $Z \rightarrow \mu\tau$. The searches are based on the data sample of proton–proton collisions collected by the ATLAS detector corresponding to an integrated luminosity of 20.3 fb⁻¹ at a center–of–mass energy of $\sqrt{s} = 8$ TeV.

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