Contribution ID: 4 Type: **not specified** 

## Search for lepton-flavor violation in emu, etau and mutau final states

Thursday, 20 December 2018 17:45 (15 minutes)

A search is performed for a heavy particle decaying into different-flavor, dilepton pairs  $(e\mu,e\tau\text{ or }\mu\tau)$ , using  $36.1fb^{-1}$  of proton–proton collision data at  $\sqrt{s}=13$  TeV collected in 2015–2016 by the ATLAS detector at the Large Hadron Collider. No excesses over the Standard Model predictions are observed. Bayesian lower limits at the 95\% credibility level are placed on the mass of a \Zprime boson, the mass of a supersymmetric  $\tau$ -sneutrino, and on the threshold mass for quantum black-hole production. For the Z' and sneutrino models, upper cross-section limits are converted to upper limits on couplings, which are compared with similar limits from low-energy experiments and which are more stringent for the  $e\tau$  and  $\mu\tau$  modes.

## **Type**

Parallel talk

## Sessions (parallel only)

Beyond Stand Model

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Session Classification: Beyond Standard Model

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