



Contribution ID: 421

Type: Talk

## Search for lepton flavor violating decays of heavy resonances and quantum black holes in dilepton final states with full Run2 CMS data

*Tuesday 13 December 2022 11:15 (15 minutes)*

Several extensions of the standard model (SM) predict the existence of heavy particles that undergo lepton flavor violating (LFV) decays, thereby motivating searches to look for deviations from the SM in the dilepton final states. This talk will present the recent results on the search for such heavy resonances and quantum black holes in the  $e\mu$ ,  $e\tau$ , and  $\mu\tau$  mass spectra using the proton-proton collisions data recorded by the CMS experiment at the CERN LHC at center-of-mass energy of 13 TeV corresponding to an integrated luminosity of 137.1 fb<sup>-1</sup>.

### Session

Quark and Lepton Flavour Physics

**Primary author:** Dr KALSI, Amandeep Kaur (Punjab Agricultural University, Ludhiana)

**Co-author:** KALSI, Amandeep Kaur

**Presenter:** Dr KALSI, Amandeep Kaur (Punjab Agricultural University, Ludhiana)

**Session Classification:** WG8 - Quark and Lepton Flavour Physics