Type: Talk in young researcher session

## Search for lepton flavour violation in charm decays at LHCb

Wednesday 6 July 2022 15:00 (15 minutes)

LHCb is playing a crucial role in the study of rare and forbidden decays of charm hadrons, which might reveal effects beyond the Standard Model. This talk aims in particular to motivate the search for lepton flavour violation (LFV) in charm decays. A short overview of recent LFV results in the charm sector at LHCb is presented, as well as the prospects for future measurements exploiting new topologies, such as four-body decays of the form  $D^0 \to hh\mu e$  with  $h=\pi^\pm, K^\pm.$ 

Author: UNVERZAGT, Daniel (Ruprecht Karls Universitaet Heidelberg (DE))

**Presenter:** UNVERZAGT, Daniel (Ruprecht Karls Universitaet Heidelberg (DE))

Session Classification: Young researcher session

Track Classification: Young researcher session