



Contribution ID: 367

Type: **Parallel session talk**

## Searches for LF/LN violation and hidden sectors in kaon decays at the NA62 experiment

*Monday 21 August 2023 09:54 (18 minutes)*

Rare kaon decays are among the most sensitive probes of both heavy and light new physics beyond the Standard Model description thanks to high precision of the Standard Model predictions, availability of very large datasets, and the relatively simple decay topologies. The NA62 experiment at CERN is a multi-purpose high-intensity kaon decay experiment, and carries out a broad rare-decay and hidden-sector physics programme. Recent NA62 results on searches for violation of lepton flavour and lepton number in kaon decays, and searches for production of hidden-sector mediators in kaon decays, are presented. Future prospects of these searches are discussed.

### Collaboration / Activity

NA62

**Primary author:** ROMANO, Angela (University of Birmingham)

**Presenter:** PANICHI, Ilaria

**Session Classification:** T08 Flavour Physics and CP Violation

**Track Classification:** Flavour Physics and CP Violation