



Contribution ID: 27

Type: **Talk**

Search for heavy neutral lepton production at the NA62 experiment

Thursday 10 September 2020 12:15 (25 minutes)

Searches for heavy neutral lepton production in $K^+ \rightarrow e^+ N$ and $K^+ \rightarrow \mu^+ N$ decays using the data set collected by the NA62 experiment at CERN in 2016-18 are presented. Upper limits on the elements of the extended neutrino mixing matrix $|U_{e4}|^2$ and $|U_{\mu4}|^2$ are established at the levels of 10^{-9} and 10^{-8} , respectively, improving on the earlier searches for heavy neutral lepton production and decays in the kinematically accessible mass range.

Is this abstract from experiment?

Yes

Is the speaker for that presentation defined?

Yes

Name of experiment and experimental site

NA62 Collaboration at CERN, <https://na62.web.cern.ch/>

Internet talk

Yes

Details

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Session Classification: Semiplenary