



Contribution ID: 148

Type: **Talk**

## New measurement of the radiative decay $K_{e3\gamma}$ at the NA62 experiment at CERN

*Wednesday 8 September 2021 15:45 (25 minutes)*

The NA62 experiment at CERN reports new results from the study of the radiative kaon decay  $K^+ \rightarrow \pi^0 e^+ \nu_\mu \gamma$  ( $K_{e3\gamma}$ ), using a data sample recorded in 2017–2018. The sample comprises  $O(100k)$   $K_{e3\gamma}$  candidates with sub-percent background contamination. Preliminary results with the most precise measurement of the  $K_{e3\gamma}$  branching ratio, and a T-asymmetry measurement in the  $K_{e3\gamma}$  decay, are presented.

**Primary author:** Dr KOVAL, Michal (Charles University (CZ))

**Presenter:** Dr KOVAL, Michal (Charles University (CZ))

**Session Classification:** Tests of symmetries and conservation laws

**Track Classification:** Tests of symmetries and conservation laws