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New measurement of radiative decays $K^+ \rightarrow e^+ \nu \gamma$ and $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ at the NA62 experiment

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The NA62 experiment at CERN reports new results from studies of radiative kaon decays $K^+ \rightarrow \pi^0 e^+ \nu \gamma$ and $K^+ \rightarrow e^+ \nu \gamma$, using a data sample recorded in 2017–2018. The sample comprises $O(10k)$ $\pi^0 e^+ \nu$ candidates and $O(100k)$ $e^+ \nu$ candidates with sub-percent background contaminations. Preliminary results with the most precise measurement of the $\pi^0 e^+ \nu$ and $e^+ \nu$ branching ratios, determination of structure-dependent form factors, and T-asymmetry measurement in the $\pi^0 e^+ \nu$ decay, are presented.

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Collaboration / Activity

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