

# Status of measurement of $K_S \rightarrow \pi e \nu$ branching ratio and lepton charge asymmetry with the KLOE detector

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## Collaboration

KLOE-2

## Abstract content

We present the current status of the analysis of about 1.7 billion  $K_S K_L$  pair events collected at DAFNE with the KLOE detector to determine the branching ratio of  $K_S \rightarrow \pi e \nu$  decay and the lepton charge asymmetry. This sample is  $\sim 4$  times larger in statistics than the one used in a previous KLOE analysis, allowing us to improve the accuracy of the measurement and of the related tests of CPT symmetry and  $\Delta S = \Delta Q$  rule.

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