

Status of the J-PARC E14 KOTO Experiment for the KL \rightarrow $\pi^0 \nu \bar{\nu}$

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The purpose of the J-PARC E14 KOTO experiment is to search for new physics beyond the standard model that enhances the branching ratio of the $(K_L \rightarrow \pi^0 \nu \bar{\nu})$ decay.

The experiment looks for two and only two photons from the decay that have a finite transverse momentum.

The detector consists of a pure CsI calorimeter and hermetic photon veto counters placed in a vacuum tank.

The beamline has been constructed, and the beam will be tested starting this fall.

New CsI calorimeter will be installed next year, and rest of the detector will be installed in the following year.

The features and status of the experiment will be presented.

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