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The new $KL \rightarrow \pi^0 \nu \nu$ Experiment (KOTO) at J-PARC

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J-PARC-E14 KOTO experiment aims at first observation of the rare decay $KL \rightarrow \pi^0 \nu \nu$ using an intense KL beam in the Hadron experimental hall at J-PARC. The new dedicated KL beamline for KOTO experiment has been constructed in 2009. First KL beam was successfully extracted and surveyed from Oct. in 2009 to Feb. in 2010. Assembling of main detector part, which is composed of 2716 CsI crystals, was just started in May, 2010. Whole detector system will be completed in 2011 and total engineering run and first physics run will be started. In this contribution, the preparation status of the beamline and the detector will be reported.

Primary author: Dr WATANABE, Hiroaki (KEK)

Presenter: Dr WATANABE, Hiroaki (KEK)

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