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$K_L^0 o \pi^0 u \overline{ u}$ Experiment at J-PARC

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J-PARC (Japan Proton Accelerator Research Complex), which intends to provide MW-class super-intense proton beam, is under construction. First slow-beam extraction at 30 GeV is scheduled on December, 2008. J-PARC-E14 experiment aims at first observation of the rare decay $K_L^0 \to \pi^0 \nu \overline{\nu}$ using intense K_L^0 beam. E14 reuses most of the detector and beam-line components for KEK-PS E391a with some necessary modifications and upgrades. Thus E14 can get ready in a shorter preparation period, and the first physics run is proposed in 2010 to Program Advisory Committee. In this contribution the strategy, plan and status of the $K_L^0 o \pi^0 \nu \overline{\nu}$ experiment at J-PARC will be reported in detail.

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