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Search for the Rare Decay Kl->pi0nunubar at E391a Experiment

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The E391a experiment at the KEK 12 GeV proton synchrotron is the first dedicated experiment for the Kl-pi0nunubar decay. The data is taken during three separate Runs. We just performed a blind analysis on the last Run. With (3.48+-0.25)10^9 Klong decays, we found no candidate events. An upper limit of 6.810^-8 was set on the branching ratio for the decay at the 90% confidence level.

Author: MA, Jiasen (The University of Chicago)Presenter: MA, Jiasen (The University of Chicago)

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