

A proposal to measure the rare decay $K_L \rightarrow \pi^0 \nu \bar{\nu}$ at IHEP (Protvino) 70 GeV proton accelerator

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The talk is supposed to be an extended description of the experimental setup KLOD, a joint project of IHEP (Protvino), INR (Moscow), JINR (Dubna). Some prospects related to this project have been preliminary reported at K-Rare2005 Workshop, Frascati. Presented at Kaon-2007 results are based on the Proposal of the experiment prepared to be published at IHEP. All experimental aspects including beam parameters evaluation, simulation and some test beam measurements of the major detectors, sensitivity and background estimations will be presented

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