

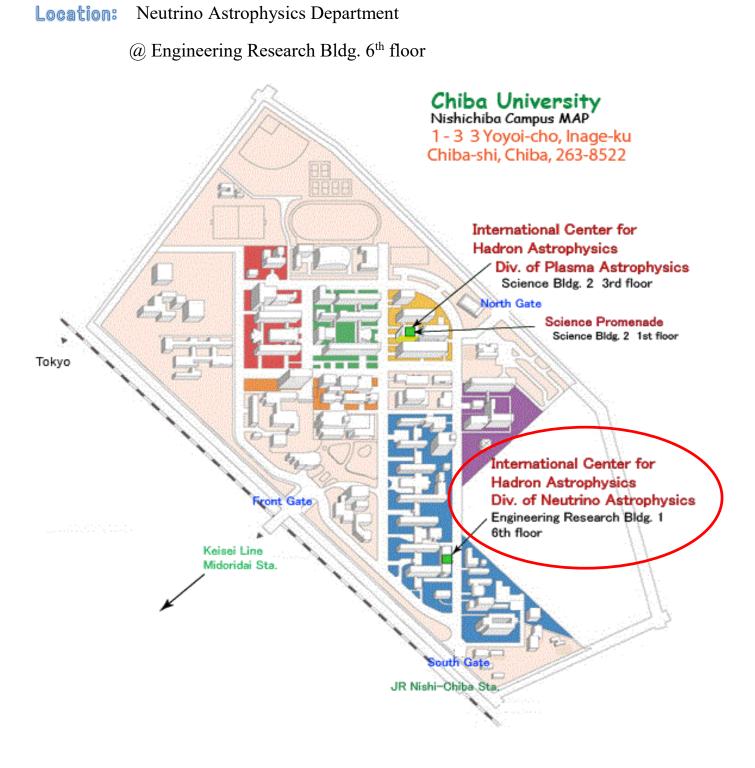
ICEHAP Seminar

Date	Aug. 31 Monday 10:00~11:00
Location	ICEHAP Office (Engineering Research Bldg.1 Room609-1)
By	Dr. Nobuhiro Shimizu (Osaka University)
Title	

[Search for New Physics via neutral kaon decays]

Abstract

The KOTO experiment searches for the rare decay of the neutral kaon, $KL \rightarrow \pi \ 0 \ \nu \ \nu$ bar. The branching ratio is heavily suppressed in the standard model $(3x10^{-11})$ and its observation may reveal hints of New Physics. To measure the rare decay, large statistics of KL and sufficiently high signal-to-noise ratio are necessary. The presenter introduces recent updates of KOTO: the Csl calorimeter upgrade to discriminate neutrons and photons, and studies of charged kaon backgrounds. In addition, a new physics search via Lorentz-violating decay, $KL \rightarrow \pi \ 0 \ \gamma$ will be explained.



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