

ICEHAP セミナー

Date 日時 8月31日(月) 10:00~11:00

Place 場所 ICEHAP オフィス (工学系総合研究棟 1 内 6 階 609-1 号室)

Ву 講演者 清水 信宏 氏 (大阪大学)

Title タイトル

Search for New Physics via neutral kaon decays

Abstract 概要

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 ($3 \times 10^{\circ} - 11$) 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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