千葉大学大学院理学研究院附属
ハドロン宇宙国際研究センター
ICEHAP International Center for Hadron Astrophysics

ICEHAP セミナー

Date 日時　　**９月１日（火）　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)

By 講演者　　**伊藤　慎太郎　氏　(岡山大学)**

Title タイトル

『The SK-Gd Experiment

−A New Experimental Phase to Search for Supernova Relic Neutrinos−』

Abstract 概要

The Super-Kamiokande Gadolinium (SK-Gd) project is an upgrade of the Super-Kamiokande (SK) detector by dissolving gadolinium sulfate octahydrate ($Gd_2(SO_4)_3 \cdot 8H_2O$) into the SK detector up to the 0.2% concentration. One of the main physics targets of SK-Gd is to discover supernova relic neutrinos and study star formation of the universe. To dissolve $Gd_2(SO_4)_3 \cdot 8H_2O$ into the SK tank, many researches and developments, for example productions of pure $Gd_2(SO_4)_3 \cdot 8H_2O$, water leakage fixing of the SK tank, and so on, were performed. The SK-Gd experiment has finally been started since the middle of July 2020. The researches and developments and the current status of the SK-Gd experiment will be presented in the seminar.

Location:　ニュートリノ天文学部門　工学系総合研究棟１内　６階

Contact: 043-290-2763