

## **ICEHAP Seminar**

Date	Sept. 1 Tues	day	10 : 00~11 : 00
Location	ICEHAP Office (Engineering Research Bldg.1 Room609-1)		
Ву	Dr. Shintaro	Ito	(Okayama University)
Title			
<b>The SK-Gd Experiment</b>			

## -A New Experimental Phase to Search for Supernova Relic Neutrinos-

## Abstract

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.



Contact: 043-290-2763