



Contribution ID: 105

Type: **Poster**

The Super-Kamiokande Gadolinium Project

Monday, 8 August 2016 18:30 (2 hours)

The Super-Kamiokande Gadolinium (SK-Gd) Project is the upgrade of the SK detector via the addition of water-soluble gadolinium (Gd) salt. This modification will enable it to efficiently identify low energy anti-neutrinos. SK-Gd will pursue low energy physics currently inaccessible to SK due to backgrounds. The most important will be the world's first observation of the diffuse supernova neutrino background. In addition, Gd-loading has benefits for other physics, such as subtle features of supernova bursts, pre-supernovae, and reactor antineutrinos. On June 27 2015, the Super-Kamiokande Collaboration approved the SK-Gd project. The R&D program towards SK-Gd is being accelerated now. The instrumental setup, current status, and main physics topics of SK-Gd will be presented.

Primary author: SEKIYA, Hiroyuki (University of Tokyo)

Presenter: SEKIYA, Hiroyuki (University of Tokyo)

Session Classification: Poster Session

Track Classification: Neutrino Physics