GPPU progress report

Search for solar flare coincidence neutrinos and geo neutrinos with KamLAND

Research Center for neutrino Science DC1 Nanami Kawada



Geo neutrino measurement update



Reactor-off period analysis

- Reactor neutrino is the dominant BG of geo neutrino.
- **Reactor-off period** give us large S/N ratio.

Reactor-neutrino spectre update

- In reactor-on period, big systematic error comes from reactor-neutrino spectrum uncertainty.
- To reduce the uncertainty, I will re-estimate the spectre at KamLAND by;
 - 1. results of other reactor-neutrino experiments
 - 2. calculation of the contribution from long-lived fission products in the nuclear fuel.

Status and Prospect



Studying abroad

Present status

- I have not stdied abroad yet.
- I have got many opportunities of co-working and discussing with forein researchers in KamLAND collaboration.

Future plan

- I do not have any fixed plan yet.
- I would like to ask researchers in KamLAND collaboration to train remotely.
 - Electronics update (Actually I am already co-working.)
 - Discussion about anti-neutrino measurement and analysis