

## Updates on Super-Kamiokande results

*Tuesday, 3 July 2018 15:00 (30 minutes)*

Super-Kamiokande IV has just finished in June 2018 for upgrading the detector via the addition of water-soluble gadolinium (Gd) salt. By that time, the Super-Kamiokande experiment has accumulated atmospheric neutrino and solar neutrino events and has made improvements in their measurement over the last 20 years. With the atmospheric neutrino data, precise measurements of mixing angles and mass squared difference, and a study on the mass hierarchy, leptonic CP violation are being performed. The observation of solar neutrinos provides precise measurements of their energy spectrum and terrestrial matter effects. With a recent improvement, the solar neutrino measurement has a full efficiency at 3.5MeV electron kinetic energy. The most updated results based on all Super-Kamiokande data set will be presented.

### **Co-Authors (Collaboration)**

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