



Contribution ID: 29

Type: **not specified**

Antineutrino Directional Measurement

Wednesday 23 October 2019 09:30 (30 minutes)

The liquid scintillator detectors have the sensitivity for measuring total amount of geo-neutrinos from the Earth's crust and mantle. However, we do not have the technology to track the direction of incoming geo-neutrinos at present due to the high miss-identification in a neutrino's track reconstruction. The direction-sensitive detector can map out the U and Th distribution inside the Earth and this technic is also applicable to resolving crust versus mantle contributions. The status of technological development and overview of new ideas for directional measurement will be presented.

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