



Contribution ID: 1208

Type: **Poster**

## **The Liquid Scintillator Study for JUNO**

*Monday, August 8, 2016 6:30 PM (2 hours)*

The Jiangmen Underground Neutrino Observatory (JUNO) is a multipurpose neutrino experiment designed to determine neutrino mass hierarchy and precisely measure oscillation parameters by detecting reactor neutrinos, observe supernova neutrinos, study the atmospheric, solar neutrinos and geo-neutrinos. The central detector will use a acrylic sphere with the diameter of 35.4 m and contain the 20 ktons of liquid scintillator. One of the big challenges is to produce the liquid scintillator with high light yield, long attenuation length and very low radioactive background. The R&D study on the high light yield liquid scintillator and several methods include optical and radioactive purification will be reported.

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**Session Classification:** Poster Session

**Track Classification:** Detector: R&D and Performance