



Contribution ID: 279

Type: **Poster**

Underground Muon Flux in Daya Bay and JUNO experiments

Muon induced background is one of the main backgrounds of the Daya Bay experiment and is also critical for JUNO background estimation, sensitivity studies and detector design. This background can be estimated by the muon flux at each experimental site, which is estimated by simulation with MUSIC, the Daya Bay mountain profile and a modified Gaisser formula at sea level. The underground muon fluxes were measured by different Daya Bay detectors, which cross check each other and are validated by the simulation. Based on the Daya Bay results and the simulation method, the muon flux of the JUNO experiment at -700 meter underground is obtained using the JUNO mountain profile.

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Track Classification: Reactor Neutrino Oscillations