Contribution ID: 197 Type: not specified

Recent results from Daya Bay

Friday, 1 September 2017 14:00 (25 minutes)

Utilizing the powerful reactors as anti-neutrino sources, and eight functionally identical underground detectors, the Daya Bay experiment has studied a wide range of topic of interest in neutrino physics. In this talk, I will report the latest measurement of oscillation parameters, and search for a light sterile neutrino, among others. A recent measurement of evolution of the reactor anti-neutrino flux and spectrum over multiple fuel cycles in 1230 days will also be presented. The measurement suggests a 7.8% overestimation of predicted anti-neutrino flux from 235U fission isotope, and indicates this isotope could be the primary contributor to the reactor antineutrino anomaly.

Presenter: Dr YU, Zeyuan (中国科学院高能物理研究所)

Session Classification: Neutrino physics

Track Classification: 3) Neutrino physics