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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.

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Session Classification: Neutrino physics

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