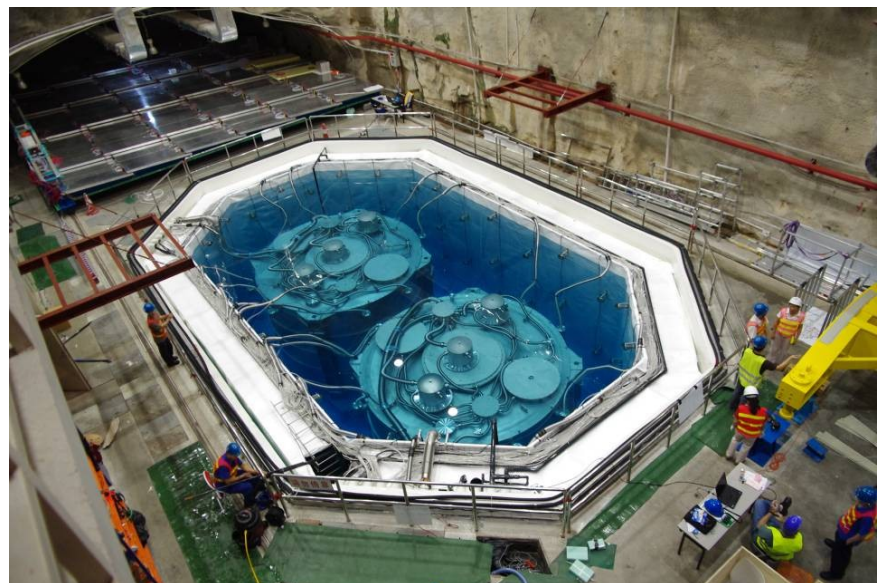


Observation of Electron anti-neutrino Disappearance at Daya Bay.

Yifang Wang (IHEP Beijing)

Wednesday, 20 June 2012, 16:00 h
DESY Auditorium

After eight years of planning and construction, the Daya Bay reactor neutrino experiment started physics data taking on 24 Dec. 2011. Over 55 days of data taking, first physics results were obtained. The disappearance of electron anti-neutrinos from reactors at a baseline of 1.7 km are observed, consistent with the expectation of the neutrino oscillation.



The measured oscillation amplitude is $\sin^2 2\theta_{13} = 0.092 \pm 0.016(\text{stat}) \pm 0.005(\text{syst})$, 5.2 sigma statistically significant from zero. A new plan for the future of the Daya bay experiment will also be given.

- Coffee, tea and cookies will be served at 15.45h
- After the seminar there is a chance for private discussions with the speaker over wine and pretzels