

LABORATORI NAZIONALI DEL GRAN SASSO

SEMINAR ANNOUNCEMENT

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**Measurement of
Neutrino Mixing
Parameter $\sin^2 2\theta_{13}$ at
Daya Bay**

Neutrino oscillations and neutrino mass are the first, and only, known physics beyond the standard model. In the standard three neutrino model, neutrino oscillations, or mixing, is governed by 2 independent Δm^2 scales, three mixing angles and one CP violating phase. Until very recently, only the last mixing angle, θ_{13} , and the CPV phase, were still unknown. This talk will describe the first observation of non-zero $\sin^2 2\theta_{13}$ by the reactor neutrino experiment Daya Bay, and place this measurement in a global context.

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