Contribution ID: **334** Type: **Parallel Session Talk**

The Double Chooz reactor neutrino experiment

Saturday, 24 July 2010 11:00 (12 minutes)

Double Chooz is a reactor neutrino oscillation experiment which aims at the discovery of the last neutrino mixing angle, theta_{13}. The expected sensitivity to sinˆ2(2theta_{13}) reaches 0.03 (90% C.L.) which is approximately a factor 5 better than the current limit. Double Chooz will use two identical detectors with different baselines to suppress the systematic uncertainties down to 1% or better. The far detector is currently (as of May 2010) under construction and the detector commissioning is expected shortly. An overview of the Double Chooz experiment including the status of the detector construction will be presented.

Primary author: Dr ISHITSUKA, Masaki (Tokyo Institute of Technology)

Presenter: Dr ISHITSUKA, Masaki (Tokyo Institute of Technology)

Session Classification: 07 - Neutrinos

Track Classification: 07 - Neutrinos