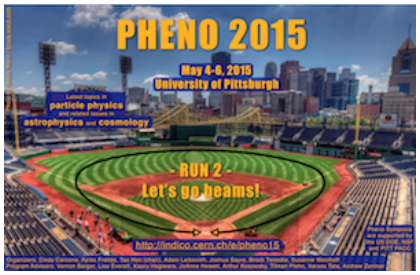

Contribution ID: **5** Type: **parallel talk**

The latest result/analysis of Double Chooz Experiment

Tuesday 5 May 2015 14:15 (15 minutes)

Precise measurement of the neutrino mixing angle theta13 is the primary goal of the Double Chooz Experiment. Inverse beta decay process provides a unique signature of anti-neutrino interaction from the reactors, giving prompt signals from positron annihilation and delayed signals from neutron capture by either Gadolinium (Gd) or Hydrogen (H). In this talk, the latest Gd- and H-based analysis results from Double Chooz will be presented, including the detection efficiency evaluation, background estimates, energy calibration and oscillation results. Furthermore, the potential for sterile neutrino search will be shown.

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Session Classification: Neutrinos