

# Vulcano Workshop 2014 - Frontier Objects in Astrophysics and Particle Physics



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## Double Chooz: Towards the near detector phase

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Reactor anti-neutrino experiments have stood out in recent years with the measurement of the last mixing angle  $\Theta_{13}$ .

Double Chooz is one such experiment whose sensitivity will increase with the addition of the near detector, which is set to start data taking later this year.

I will present results from three separate analyses, neutron capture on either Gd or H and a background-independent analysis using the known modulation of the reactor anti-neutrino flux.

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