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Latest results from Double Chooz

Latest Results from Double Chooz experiment
Double Chooz (DC) is a reactor neutrino experiment aimed to precise measurements of the neutrino oscillation parameter $_{13}$. The latest measured DC value for the $_{13}$ is $sin^2\ (2_{13}) = 0.102 \pm 0.011(syst.) \pm 0.04(stat.)$[1]. The experiment has completed data-taking. During the decommissioning of the detectors the mass measurements has been taken again for one of the detectors volume, the Gamma-Catcher. The final analysis is in progress and it is expected that the total uncertainty $_{sin^2\ (2_{13})}$ will reduce from 0.012 to 0.0105 [1]. The overall status and the final detection systematics is presented including the new proton number.

[1] Thiago Bezerra; New Results from the Double Chooz Experiment; The XXIX International Conference on Neutrino Physics and Astrophysics (2020).

Section

Neutrino physics and nuclear astrophysics

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