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WA105: A prototype of Long Baseline Neutrino Detector

Neutrino oscillations allow for CP violation in the leptonic sector thanks to the presence of a phase in the PMNS matrix. Still unmeasured today, this phase could explain why there is something instead of nothing in our universe.

The DUNE experiment in the US, set to start around 2026, is designed to measure this phase. A first prototype of Double Phase Liquid Argon TPC is being built at CERN to test the technology that might be used in DUNE to detect (anti)neutrinos.

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