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ICARUS-T600 and beyond: LAr-TPC for neutrino physics and proton decay search

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Liquid Argon TPCs are very promising detectors for neutrino and astroparticle physics thanks to their high granularity, good energy resolution and 3D imaging, allowing a precise event reconstruction. At the end of May 2010 the ICARUS-T600, the first underground large mass LAr-TPC devoted to the experimental study of neutrinos, matter stability and, more generally, rare phenomena, recorded the first CNGS neutrino interaction at INFN Gran Sasso Laboratory. ICARUS-T600 represents also an important step of the Liquid Argon technique towards the realization of much larger LAr-TPC detectors for future neutrino and matter stability projects.

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