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The COHERENT Experiment: CENNS-10 Detector

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The COHERENT experiment goal are to detect and to study neutrino coherent scattering of elastic neutrino-nucleus scattering (CEνNS). This process is predicted by Standard Model but it has never been observed experimentally because of very low energy of recoil nucleus. COHERENT is using different detector technologies: germanium detectors, CsI[Na] and NaI scintillators and single-phase liquid Ar calorimeter. A description of liquid Ar detector, named CENNS-10, its current status and future plans will be presented.

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