

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 ($\text{CE}\nu\text{NS}$). 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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