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Scintillator detectors: SuperFGD, MINERvA, LiquidO

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Scintillator detectors have been widely used in the modern neutrino experiments as active target and new detector technology is being actively developed. This report reviews following three scintillation detector technologies. The MINERvA detector uses plastic scintillator strips and has been operating since 2010 to study neutrino interaction with various nuclei. The SuperFGD detector exploits scintillator cubes for high granularity and started its operation in 2023 as a part of the T2K near detector. The novel LiquidO technique utilizes opaque liquid scintillator as a self-segmented detector, targeting future experiments such as CLOUD and SuperChooz.

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