

LVD

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The Large Volume Detector (LVD), located in Hall A at LNGS, is an underground neutrino observatory mainly designed to study neutrinos from core-collapse supernovae. It is in operation since 1992, under different larger configurations. LVD currently consists of an array of 840 scintillator counters, arranged in a compact and modular geometry, for a total active mass of $M=1000$ t. Since July 2005 LVD has taken part to the Supernovae Early Warning System (SNEWS), the network of supernova neutrino observatories whose main goal is to provide the astronomical community with a prompt alert for the next galactic core-collapse supernova.

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