

Measurements of neutron spectra characteristics using NaCl in LVD

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The main goal of LVD detector is the search for neutrino bursts from gravitational stellar collapses in our Galaxy. Adding NaCl to the detector structure allow to increase neutron detection efficiency up to ~20% and thereby increase the number of antineutrino interactions according to standard collapse model. Also it make possible to detect more neutrino interactions for non-standart collapse model.

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