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Detecting Supernova Neutrinos by Iron and Lead Detectors

Thursday 15 October 2015 15:40 (30 minutes)

Supernova neutrinos can excite the nuclei of different detector materials beyond their neutron emission thresholds through the charged current and neutral current interactions. The emitted neutrons, if detected, can be a signal for the supernova event. In this talk we shall discuss some results for the lead and iron detectors using the realistic neutrino fluxes and energies given by Basel/Darmstadt simulations for a 18 solar mass progenitor supernova.

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