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Observation of Supernova Neutrino Bursts via CEvNS

Friday 14 June 2019 18:00 (3 hours)

Coherent elastic neutrino-nucleus scattering (CEvNS) is a neutral-current process in which a neutrino scatters off an entire nucleus, depositing a tiny recoil energy. The process is important in core-collapse supernovae and also presents an opportunity for detection of a burst of core-collapse supernova neutrinos in low-threshold detectors designed for dark matter detection. This talk will cover prospects for supernova burst detection via CEvNS in existing and future large detectors.

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Session Classification: Poster session and welcome dinner reception