

HALO-1kt: A massive helium and lead observatory for supernova neutrinos

Thursday, 1 November 2018 18:18 (3 minutes)

HALO-1kt is a supernova neutrino observatory which would leverage 1000 tonnes of lead from the decommissioned OPERA experiment to create a low cost and low maintenance neutrino detector. It is to be sited at LNGS, and is intended to operate as a scaled up version of the original HALO. Due to its sensitivity to ν_e , it is complementary to water Cherenkov and liquid scintillator-based detectors. Design is currently in progress.

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Session Classification: Poster session and Reception