

Abstract Submitted
for the APR20 Meeting of
The American Physical Society

Detecting Supernova Neutrinos using the DUNE Photon Detection System¹ BISWARANJAN BEHERA, Colorado State University, DUNE COLLABORATION — The photon detection system (PDS) is a subsystem of the Deep Underground Neutrino Experiment (DUNE). It is an integral part of the DUNE detector whose primary task is to measure the scintillation light signal and use it to determine the time of occurrence of non-beam events. The photon detection system will also provide a complementary measurement of the deposited energy, and can contribute to triggering. This talk will report on simulation-based analyses of how neutrinos from supernova neutrino bursts can be detected using the DUNE photon detection system.

¹Author is supported by DOE grant

Biswaranjan Behera
Colorado State University

Date submitted: 14 Jan 2020

Electronic form version 1.4