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## **Detecting Supernova Neutrinos using the DUNE Photon Detection System**

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 poster will report on simulation-based analyses of how neutrinos from supernova neutrino bursts can be detected using the DUNE photon detection system.

### **Mini-abstract**

Simulation-based Supernova Neutrino Detection with the DUNE Photon Detector

### **Experiment/Collaboration**

DUNE

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