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## Galactic Supernova Neutrino Detection with the NOvA Detectors

Detectors around the world are poised to measure the neutrino flux from the next galactic core-collapse supernova in unprecedented detail and to shed light on the poorly-understood dynamics involved in these explosions. NOvA is a long-baseline neutrino oscillation experiment with an underground near detector and surface far detector. For a 10 kpc supernova, several thousand MeV-scale neutrino interactions are expected to occur in NOvA's liquid scintillator detectors. Measuring these neutrinos requires overcoming several challenges: the SN neutrino spectrum is close to detection threshold, the far detector is subject to a large cosmic muon flux, and each neutrino interaction generates a small number of hits which resemble electronic noise. In this poster, I present recent work in addressing these challenges to enable NOvA to measure the neutrino flux from the next galactic core-collapse supernova.

### Mini-abstract

The NOvA detectors can trigger on galactic SNe; efforts to reconstruct events offline are underway.

### Experiment/Collaboration

NOvA

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