

## Phenomenology 2018 Symposium



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# DUNE as the next-generation solar neutrino experiment

*Tuesday 8 May 2018 15:30 (15 minutes)*

Important questions in solar neutrinos need to be answered. How? We propose the solar neutrino program for the next-generation neutrino experiment–DUNE. We first show the advantages of DUNE itself. Then we show that the detection backgrounds can be made low to make this program realistic. From our analysis, DUNE solar program could give the best measurement of mixing parameters and  $^8B$  flux, and make the first detection of *hep*. The spectacular results DUNE would achieve may open substantial discovery space in particle physics and astrophysics.

## Summary

**Primary authors:** ZHU, Guanying (The Ohio State University); Dr CAPOZZI, Francesco (Max Planck Institute For Physics (Munich)); LI, Shirley (The Ohio State University); BEACOM, John (Ohio State University)

**Presenter:** ZHU, Guanying (The Ohio State University)

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