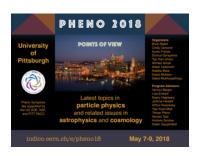
## Phenomenology 2018 Symposium



Contribution ID: 610 Type: parallel talk

## 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**

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Session Classification: Neutrinos II