

Detecting the Cosmic Neutrino Background with PTOLEMY

Friday, 3 November 2023 14:50 (20 minutes)

The PTOLEMY collaboration aims to detect the Cosmic Neutrino Background, the signal of neutrino freeze-out 1 second after the Big Bang. The CNB has been predicted, but not yet been measured. In this talk, I will give an overview of the PTOLEMY experiment and the challenges that need to be solved to make this experiment viable. Specifically, I will talk about progress on the development of the target for neutrino interactions. This target will consist of tritium atoms on graphene.

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