



Contribution ID : 26

Type : **Oral talk**

Studies of charge-sensor and gas properties of an ion-TPC for $N\nu$ DEx experiment

Friday, 25 October 2024 17:15 (15)

The $N\nu$ DEx is an experiment searching for the neutrinoless double beta decay using $^{82}\text{SeF}_6$ gas, operated in a high-pressure gas TPC. To obtain a high energy resolution, custom-designed charge sensors are deployed to directly detect the drifting ions. In this report, the measurements of the properties of SF_6 and SeF_6 gases are presented. The preliminary test results of the performance of charge sensors are also discussed.

Primary author(s) : LIANG, Tianyu; WANG, Hulin (Central China Normal University); CHEN, kai; ZHANG, Dongliang; LU, Chengui; ZHAN, Meiqiang

Presenter(s) : LIANG, Tianyu

Session Classification : Neutrino

Track Classification : Neutrino physics