



Contribution ID : 26

Type : Oral talk

## Studies of charge-sensor and gas properties of an ion-TPC for $N\nu$ DE<sub>x</sub> experiment

*Friday, 25 October 2024 17:15 (15)*

The  $N\nu$ DE<sub>x</sub> 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  $\text{SF}_6$  and  $\text{SeF}_6$  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