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

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The NvDEx is an experiment searching for the neutrinoless double beta decay using $^{82}SeF_6$ 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.

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