



Contribution ID: 235

Type: Oral presentation (plenary)

Progress of the XENONnT experiment

Friday 22 July 2022 11:30 (30 minutes)

With a 5.9 tonne liquid xenon target, XENONnT is the latest of the XENON direct detection experiments searching for dark matter. Currently, the detector is taking data at the INFN Laboratori Nazionali del Gran Sasso. XENONnT has achieved unprecedented purity both for electronegative contaminants, with an electron lifetime exceeding 10 ms, and for radioactive ^{222}Rn , with an activity of $1.72 \pm 0.03 \mu\text{Bq/kg}$. This talk will give an overview of the XENONnT experiment, the calibration and performance of the detector and projections of its performance.

Author: MORAA, Knut**Presenter:** MORAA, Knut**Session Classification:** Plenary 5