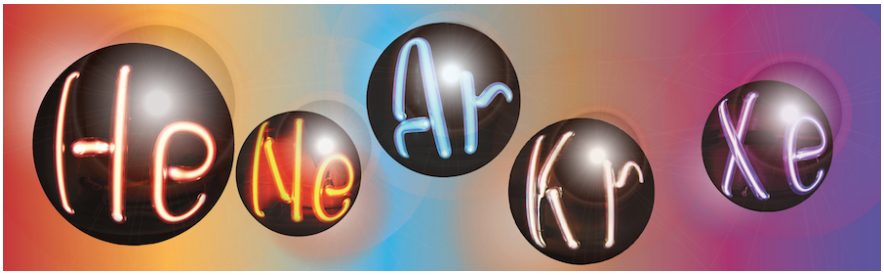

Contribution ID: **47** Type: **Presentation**

First Science Results from the XENONnT experiment

Wednesday, 21 September 2022 11:35 (15 minutes)

The XENONnT experiment is a dark matter detector centered on a dual-phase xenon time projection chamber operating 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 222Rn, with an activity of 1.72±0.03 ⊠Bq/kg. This talk will give an overview and the first science results of the XENONnT experiment.

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Session Classification: Applications

Track Classification: Applications (dark matter, neutrino, medical physics etc.)