



Contribution ID : 71

Type : **Talk**

Search for Dark Matter with the XENONnT experiment

Saturday, 26 November 2022 11:45 (15)

The XENON collaboration is dedicated to understand the nature of dark matter. The XENONnT experiment, located at Laboratori Nazionali del Gran Sasso (LNGS) in Italy, is aiming for a direct detection of weakly interacting massive particles (WIMPs) with a ton-scale dual-phase xenon time projection chamber. XENONnT has completed its first science run and is now taking data for the second science run at an unprecedented low background level.

The talk will present the goals and the status of the XENONnT experiment as well as its first results, e.g. the probing of the excess seen by its predecessor XENON1T at low energy energetic recoils.

This work is supported by BMBF under contract 05A20PM1 and by DFG within the Research Training Group GRK-2149.

Category

Particle / Astroparticle / Cosmology (Experiment)

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Session Classification : Physics Talks - Astroparticle and Experimental Particle Physics

Track Classification : Physics talks