



Contribution ID: 91

Type: **Talk**

【306】 Dark matter direct detection with the XENONnT experiment

Monday 27 June 2022 18:30 (15 minutes)

Understanding the nature of Dark Matter (DM) is one of the open issues of modern physics. In this context, the XENON project aims to lead the effort on DM direct detection using a ton-scale xenon dual-phase time projection chamber. The status of the XENONnT detector, currently acquiring data in a low background environment at LNGS (L'Aquila, Italy), is presented. The preliminary results of the experiment will be discussed, as well as its broader science goals.

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Session Classification: Nuclear, Particle- & Astrophysics

Track Classification: Nuclear, Particle- and Astrophysics (TASK)