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【353】The XENONnT detector and physics programme

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The XENONnT detector recently started its commissioning phase at Laboratori Nazionali del Gran Sasso. Utilizing 5.9 tonnes of liquid xenon (LXe) as active target and designed for a high level of background reduction, it will greatly improve the results of its predecessor, XENON1T. Although primarily a dark matter detector for direct detection of Weakly Interacting Massive Particles, other channels such as the neutrinoless double beta decay and the standing excess of electronic recoil events observed in XENON1T data will play an important role in XENONnT future analysis.

In this talk, I will present an overview of the XENONnT detector, its subsystems, and its main physics goals.

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