



Contribution ID: 78

Type: **Afternoon Session**

The XENON1T dark matter search

Thursday 20 April 2017 19:05 (15 minutes)

A direct approach to the dark matter detection is to measure the nuclear recoils produced in the scattering of DM particles off the nuclei of target materials in detectors placed deep underground.

The XENON1T experiment is the third phase of the XENON program and is aiming at direct DM detection. It consists of a double phase time projection chamber filled with about 2 t of liquid xenon and deployed at the Laboratori Nazionali del Gran Sasso.

At present is the largest operating double phase TPC with liquid xenon.

Here we report on the status of the experiment which is currently taking the first science data.

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Session Classification: Thursday Afternoon

Track Classification: Dark Matter