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Search for WIMPs and light DM with XENONnT experiment

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The mysterious nature of Dark Matter (DM) has puzzled physicists the world over. One well-motivated class of DM candidates is Weakly Interacting Massive Particles (WIMPs). The XENON Dark Matter Project for direct search for WIMPs currently operates XENONnT experiment, lying a dual-phase (liquid & gas) xenon time projection chamber (TPC), situated in the underground LNGS in Italy.

This presentation will be divided into three parts. The first part is an overview of XENON project and the latest results from first science-run in XENONnT. The second part concerns light DMs search related to my thesis. The last part is my contribution to data analysis for next science-run in XENONnT.

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