

Searches of Dark Matter signals with the ATLAS detector at the LHC: Present and future

Monday, 1 July 2019 15:00 (1 hour)

Particle Physics Seminar in Building 510

ABSTRACT:

In this seminar, I will present an overview of up-to-date results on searches for Dark Matter signals with the ATLAS detector at the LHC using Run 2 data. Comparison with non-accelerator DM results as well as interpretation within some theoretical models will be discussed. In addition, expectation from the high-luminosity LHC (HL-LHC) DM searches program will be briefly presented. Finally, I will talk about the new ATLAS High Granularity Timing Detector (HGTD), planned for the phase 2 upgrade program for the HL-LHC run, and its performances for physics studies.

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