

## Status and prospects of the DarkSide project

*Tuesday 4 June 2019 09:55 (20 minutes)*

DarkSide utilizes the  $^{39}\text{Ar}$ -depleted argon as target and the dual-phase Time Projection Chambers technology to search for WIMP signal. In this talk, I will review the recent results of the DarkSide-50 experiment, currently running at LNGS with 50-kg fiducial mass. I will also present the status of the DarkSide-20k experiment with 20-tonne fiducial mass. Plans for a further step towards a 300-tonne detector will be presented as well.

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**Session Classification:** Morning 21