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Dark Matter Search Results from DEAP-3600

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DEAP-3600 is a dark matter direct detection experiment located 2 km underground at SNOLAB (Sudbury, Canada). This single-phase detector consists of 3.3 tonnes of liquid argon (LAr), with an array of 255 photomultiplier tubes viewed through 50 cm of acrylic. The collaboration released dark matter search results from the first year of running (November 2016 to October 2017) last year, with a total live time of 231 days, and it is currently finishing the analysis of the latest blinded dataset. This talk will detail the analysis underlying these results and an update of the current analysis, which constitute the most sensitive search performed with a LAr target for WIMPs with a mass greater than 30 GeV.

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