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Dark matter search results from 231 live-days of DEAP-3600

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DEAP-3600 is a dark matter detector located 2 km underground at SNOLAB. The DEAP-3600 detector is sensitive to the scintillation signal from the scattering of dark matter particles on argon nuclei, using a single-phase (scintillation-only) design. The 3279 kg LAr target is contained in a spherical acrylic vessel and viewed by 255 photomultiplier tubes. The background from Ar-39 beta decays is strongly suppressed by the best pulse-shape discrimination in a LAr detector demonstrated so far. This talk will highlight the recent analysis and results from 231 live-days of data in DEAP-3600, currently representing the most sensitive WIMP search above a mass of 30 GeV/c² using argon.

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