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Status of the DEAP-3600 Dark Matter Search

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DEAP-3600 is a single phase dark matter detector filled with 3.3 tonnes of liquid argon (LAr). The active volume is viewed by an array of 255 PMTs, separated from the LAr by 50 cm of acrylic. The whole detector is submerged in a large cylindrical water Cherenkov detector, which acts as a muon veto. DEAP-3600 began operations in May 2016, and has been running stably since November 2016. Analysis of the data taken so far has demonstrated the power of pulse shape discrimination to reject electron-recoiling backgrounds and has produced the most sensitive WIMP search to date using a LAr target. Results from the current analysis and future plans will be presented.

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