

ArDM, a liquid argon dark matter experiment

Saturday, 23 January 2010 10:00 (20 minutes)

ArDM is an experiment for direct detection of weakly interacting massive particles in the universe with a double phase liquid argon calorimeter / TPC. The detector discussed in this talk has a fiducial volume of about 1 ton of liquid argon and the detection is done independently by the collection of ionizing charge as also of scintillation light. In this talk I'll present an overview over newly built parts of the detector as also measurements with cosmic muons and external sources using the light read out system. Further there will be first measurements with electron collection and an applied drift field over about 120 cm.

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Session Classification: Student talks