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Status of the DAMIC Dark Matter Experiment

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The DAMIC detector, currently taking data at SNOLAB, is a Dark Matter search experiment that employs scientific grade CCDs made of silicon as target material. The low readout noise of the CCDs yield to a ionization energy threshold below 60 eVee and provides optimal sensitivity for low mass WIMPs (< 20 GeV). The pixelization (15 microns) and superb energy resolution of the detectors allow for unique background rejection and identification techniques. We present here an overview of the DAMIC experiment together with a summary of the latest results produced using data acquired at SNOLAB since its installation in December 2012. We also discuss the commissioning schedule and reach of DAMIC100, a 100 g silicon target detector currently being installed at SNOLAB.

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