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DM-TPC

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The DM-TPC is an optical readout time projection chamber being developed by groups from Boston University, Brandeis University and MIT to search for dark matter. The device has the capability of measuring the properties of tracks of low energy particles, including ionization rate, true 2-dimensional projections on the readout plane with resolutions of the order of 100 microns, and the component of the trajectory perpendicular to the readout plane with a photomultiplier tube. The direction sensitivity of the device will reduce backgrounds to dark matter detection, and will enable properties of the dark matter “wind” to be measured, if/when dark matter is discovered.

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