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The Ultra-Cold Neutron Facility at TRIUMF

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Construction of an Ultra-Cold Neutron (UCN) facility is nearing completion in the TRIUMF Meson Hall. The new 500 MeV proton beamline (BL1U) and neutron spallation target, which feeds the superthermal UCN source, will be completed and transition over to the commissioning phase in Spring 2016. As well, the front end of the UCN source will be installed and also undergoing commissioning tests. Installation of the full UCN source is scheduled for completion during the second half of 2016, with UCN production expected in late 2016. A first experiment searching for the neutron electric dipole moment (nEDM) is currently being planned. The design and construction highlights, as well future plans for the UCN facility, will be presented.

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