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Vertical UCN Source Status at TRIUMF

Wednesday, 18 October 2017 15:00 (45 minutes)

The neutron EDM experiment at TRIUMF aims to measure the nEDM to the precision of ~10^{-27} e·cm by using a new superfluid He ultracold neutron (UCN) source. The Japan-Canada UCN source is unique in combining a neutron spallation source with superfluid helium. The new UCN source is expected to yield the highest density of UCNs worldwide. The ongoing research on the present vertical UCN source at TRIUMF is crucial for designing the future UCN source. The status of the present UCN source and the result of the cooldown test will be presented.

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