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The solid-deuterium-moderator-based ultracold neutron source at PSI

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The ultracold neutron (UCN) source at the Paul Scherrer Institute (PSI) has been in regular operation for the last years for up to 8 months each year. It is serving UCN to three beam ports with a priority on maximizing the UCN intensity for the neutron electric dipole moment experiment (nEDM) at PSI which was data taking with world-record sensitivity.

The UCN output has been significantly increased since initial startup. We present an update on the status of the source and measurements to characterize the performance of the neutron optics and of the 4.5kg solid deuterium moderator.

Poster back-up

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