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Update on the UCN source at PSI

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In the Paul Scherrer Institute, we operate a solid deuterium moderated Ultracold Neutron (UCN) source. UCNs are storable for several minutes, which makes them suitable for measuring neutron properties.

The UCN source will be used in the n2EDM experiment, which will measure the neutron electric dipole moment. This is CP violating and could help explain the Baryon Asymmetry of the Universe.

To improve experimental statistics, we work to understand and increase UCN output. For example by improving the quality of the deuterium crystal and optimising UCN transport. This talk will explain the source and give an overview of our improvements.

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