

Status of the source for ultracold neutrons (UCN) at the Paul Scherrer Institute

Tuesday 10 September 2013 17:30 (15 minutes)

The UCN source at the Paul Scherrer Institute is being successfully operated since 2011 and provides UCN at three beam ports, most importantly to the nEDM experiment.

We will explain the operation principle of the source and the way of UCN production.

The current status of the source and the progress made since start-up, will be presented, together with ongoing optimisations and measurements to characterize individual subsystems.

In addition, comparisons between Monte Carlo Simulations of the full source setup and recent measurements will be shown.

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Summary

Operation principle and status of the PSI source for ultracold neutrons will be presented.

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