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Neutron EDM Measurement with a Pulsed Beam

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Currently, a new experiment aiming to measure the neutron EDM using a pulsed beam of cold neutrons is being commissioned at the University of Bern. The innovative measuring concept is ideally suited for high peak-flux and time-structure provided by next-generation pulsed spallation sources (e.g. the European Spallation Source ESS). The present design, technical challenges and solutions as well as preliminary results from our first beam time at the BOA beam line at SINQ/PSI will be presented.

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