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Search for a neutron EDM at SNS

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The nEDM Collaboration is developing an experiment to run at the Spallation Neutron Source (SNS) at Oak Ridge National Laboratory to search for the neutron electric dipole moment (EDM) with a sensitivity of $<10^{-27}$ e cm based on the scheme proposed by Golub and Lamoreaux. The collaboration has been working on various R&D experiments to establish the technical feasibility of the experiment and to guide the design of the apparatus. The collaboration has also been working towards finalizing the engineering of the experimental apparatus. In this talk, the principle of the experiment and the status of the project will be presented.

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