

High-sensitivity search for the electric dipole moment of the neutron

Wednesday, 24 September 2025 12:00 (30 minutes)

The search for a permanent electric dipole moment of the neutron (nEDM) has been going on for over 60 years and is still a hot topic with various ongoing efforts worldwide. I will present the status of the work of the nEDM collaboration at PSI. The current best limit resulted from the previous measurement at PSI. The nEDM collaboration has developed a new apparatus 'n2EDM', which is being commissioned and is close to data taking aiming at a factor 10 sensitivity increase in its baseline version. I will highlight the status at PSI and also overview some efforts at other UCN sources

Primary author: LAUSS, Bernhard (Paul Scherrer Institut)

Presenter: LAUSS, Bernhard (Paul Scherrer Institut)

Session Classification: Scientific Program