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## Next-generation nEDM search at PSI

*vendredi 22 août 2025 15:50 (15 minutes)*

The next-generation neutron electron dipole moment (EDM) measurement is currently ongoing at the Paul Scherrer Institute (PSI): the n2EDM experiment. n2EDM will deliver, at minimum, an order of magnitude better sensitivity as compared to current limits on the neutron EDM. This increased sensitivity on the neutron EDM will provide stringent constraints on time-reversal violating processes and deeply probe physics beyond the Standard Model (BSM).

This talk will highlight the recent measurements and achievements during commissioning over the last year. I will also emphasize how we will reach an nEDM sensitivity of  $10^{-27}$  e.cm as data-taking begins.

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**Classification de Session:** BSM and Dark Sector Physics