

Challenges of the world-wide experimental search for the electric dipole moment of the neutron



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PULSTAR UCN source and EDM Systematic Study

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The Ultra cold Neutron source at the PULSTAR reactor on the campus of NC State University is presently in the commissioning stage. Measurements of the cryostat cooling power proved that the LHe system will be able to take the predicted radiation loads in all heat exchangers of the system. In future, the source will host an experimental test-bed apparatus to study systematic EDM effects, using polarized He-3 and UCNs . At present, an engineering design of the test bed cryostat is completed and we are working on testing prototypes of some of the components.

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