

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



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High Rate Detectors for Ultra Cold Neutrons at TRIUMF

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A high intensity UCN source, and an experiment to measure the neutron Electric Dipole Moment (nEDM) are being developed for TRIUMF. Some new physics predict nEDM contributions both above the present limit on the nEDM leading to their abandonment, and just below the present limit there are several other models vulnerable to the same fate. This talk will present the research and development being done to design an ultra cold neutron detector which is capable of handling the proposed high instantaneous neutron rates in future nEDM measurements.

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