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Simultaneous Spin Measurement 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 extensions to the standard model predict nEDM VALUES both above the present limit on the nEDM leading to their abandonment, and just below the present limit where there are several other model predictions 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. Motivation for, and initial designs of a detector for a simultaneous spin measurement will be presented.

Primary author: JAMIESON, Blair (University of Winnipeg)

Presenter: JAMIESON, Blair (University of Winnipeg)

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