

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



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The UCN source and EDM experiment at TRIUMF

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- on behalf of the TRIUMF UCN collaboration -

The 500 meV proton cyclotron at Canada's National Lab for Particle and Nuclear Physics, TRIUMF, will be used for a spallation driven ultra-cold neutron source. As a first experiment, the search of the neutron electric dipole moment (nEDM) is planned. The talk will cover design and status of the extracted superfluid helium-4 based UCN source and give an overview of the development strategy towards a next generation nEDM experiment

Primary author: Dr PICKER, Ruediger (TRIUMF)

Presenter: Dr PICKER, Ruediger (TRIUMF)

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