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Status of the UCN guides development for the TRIUMF UCN source and TRIUMF neutron EDM experiment.

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We are currently developing a super-thermal Ultracold Neutron (UCN) source using phonon exchange in super-fluid helium. To take full advantage of the high density of UCNs from our source, high transmission guides for polarized UCNs are being developed. Statistical sensitivity is the main limiting factor for a neutron EDM measurement. Furthermore, this sensitivity also depends on the initial polarization of the stored UCNs. Polarization must be maintained from the UCN source to the EDM cell. Preliminary material characterizations and plans to determine the transmission and the depolarization per bounce of these new guides with UCNs will be presented in this talk.

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