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Polarization analysis with ^3He for functional interfaces

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Polarization analysis is a useful tool for probing magnetic order or disorder at interfaces. ^3He spin filters are powerful because they can provide the 2D resolutions and high signal to noise needed to study such systems. A high performance in-situ polarized ^3He polarization analyzer has been in user operation for over 10 years on MARIA (Magnetism reflectometer). More recently a similar analyzer has been commissioned for KWS-1 (SANS) with experiments at ISIS on ZOOM. We will present our unique in-situ polarizer devices and give some scientific examples of data obtained.

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