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Polarized ^3He neutron spin filter activities at the J-PARC spallation neutron source

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Polarized neutron scattering is a powerful tool to study from materials to fundamental physics, and polarized ^3He gas is now playing an important role at high flux neutron sources as neutron spin filters (NSF). At the spallation neutron source in J-PARC (Japan Proton Accelerator Research Complex), a polarized inelastic neutron spectrometer, POLANO, is now under commissioning, and an *in-situ* polarized ^3He NSF is about to be installed in the instrument for the incident neutron beam polarization. The *in-situ* polarized ^3He NSF has been originally designed and built for POLANO but it can be used in other instruments with minimal modification because of its compact size and versatility.

We will present some techniques developed for the *in-situ* polarized ^3He NSF as well as other measurements carried out with ^3He NSF at J-PARC.

Summary

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