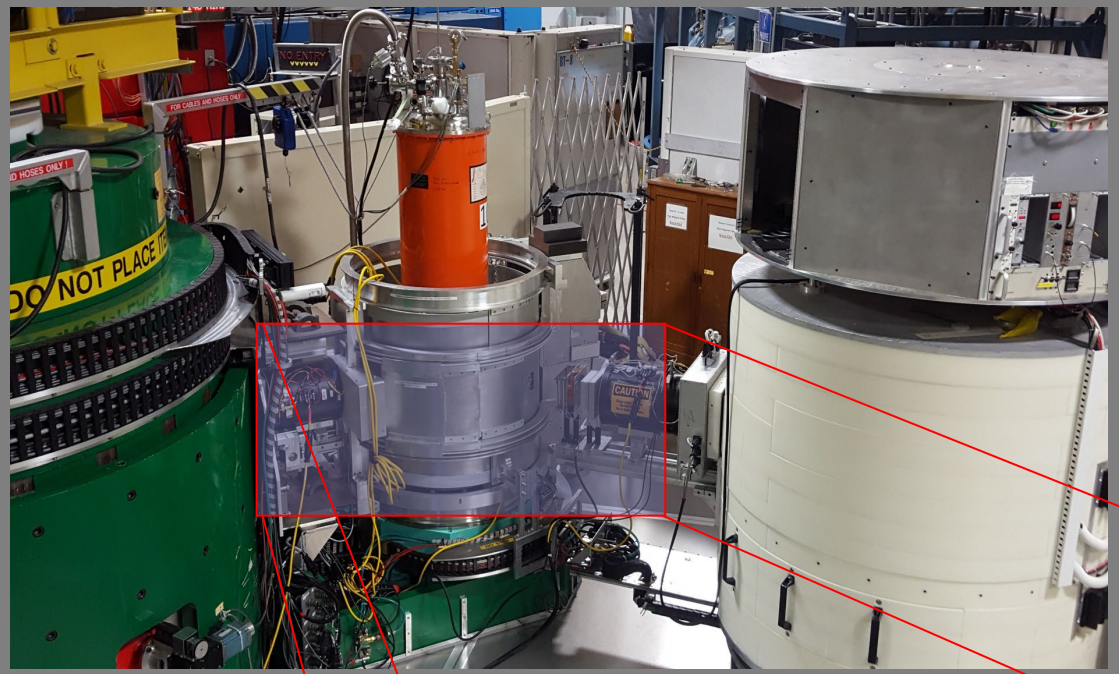
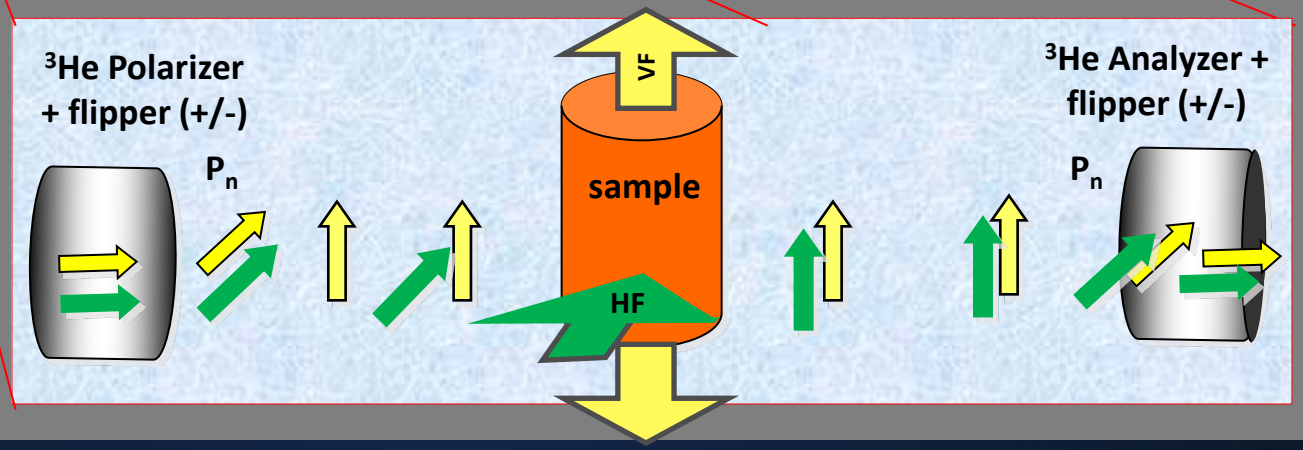
Polarized thermal neutron triple axis spectrometer BT7



- Polarized beam entirely by ^{3}He neutron spin filters.
- Polarized flux at the sample, 4.0x10^7 n/cm^2/s (OPEN) at 14.7 meV.
- Initial flipping ratio up to 60.
- Initial transmission 45%-60% (for desired spin state) for a ^{3}He polarizer or analyzer.
- Sample field at ~1 mT and up to 2 T (**P** ⊥ **Q only).**
- A factor of 2-5 improvement compared to good Heusler crystals.
- Up to 8 spin-dependent cross sections measured (4 with **P** ⊥ **Q**, 4 with **P** || **Q**).



W.C. Chen *et al*, Physica B **397**, 168 (2007); W.C. Chen *et al*, J. Phys: Conf. Ser. **528**, 012014 (2014)
https://www.nist.gov/ncnr/spin-filters/spin-filter-instruments/triple-axis