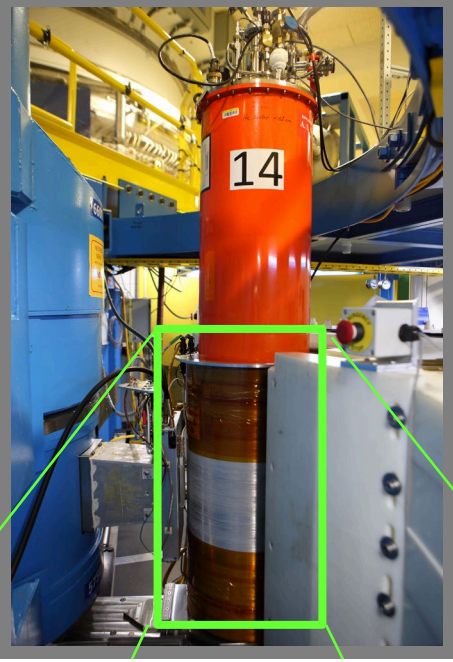
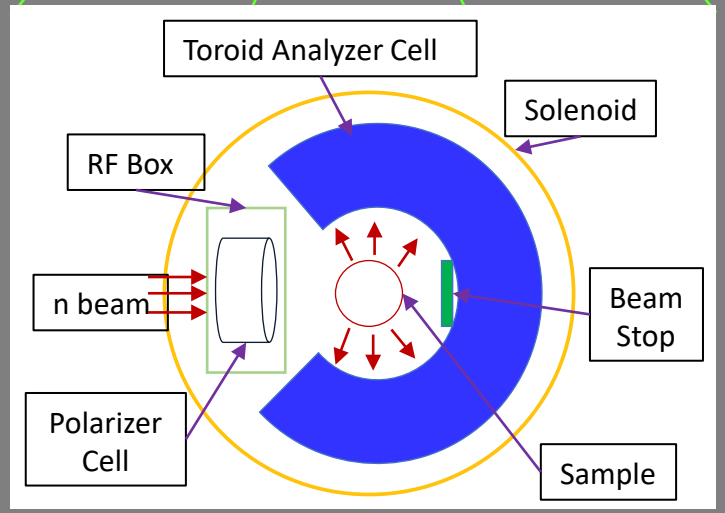
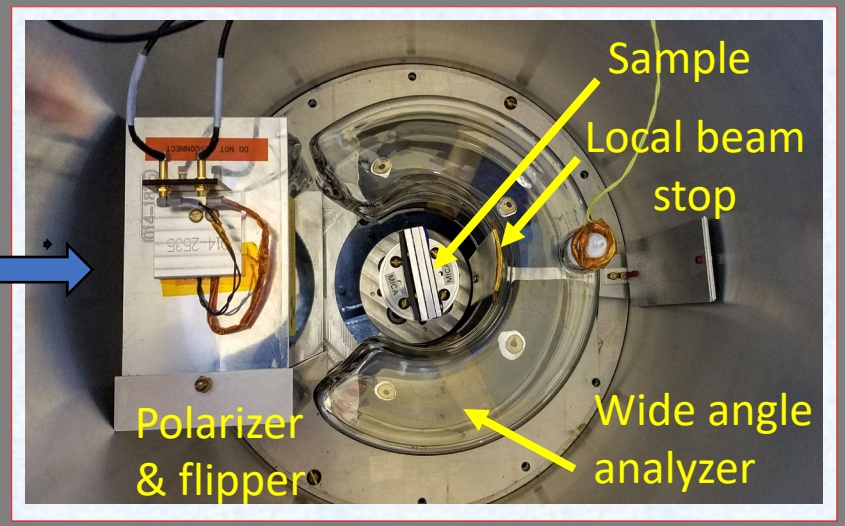
High intensity wide angle polarization analysis on MACS





- Polarized beam entirely by ^{3}He neutron spin filters.
- Very high polarized flux, 1×10^8 n/cm^2/s at 10 meV on the sample.
- E_i range: 2.5 meV - 17 meV. E_f range: 2.5 meV - 5 meV.
- Initial flipping ratio up to 45 with intensity reduction by x7.5.
- Scattering angle coverage up to 240 degrees for PA.
- **P** ⊥ **Q** (++, -+), but (++, -+, +-, --) available.
- ^{3}He polarizer and analyzer(s) refreshed every 2-4 days.
- Sample field < 4 mT.
- Polarization efficiency correction software available.



W.C. Chen *et al*, J. Phys. Conf. Ser. **746**, 012016 (2016)
https://www.nist.gov/ncnr/spin-filters/spin-filter-instruments/chrns-macs