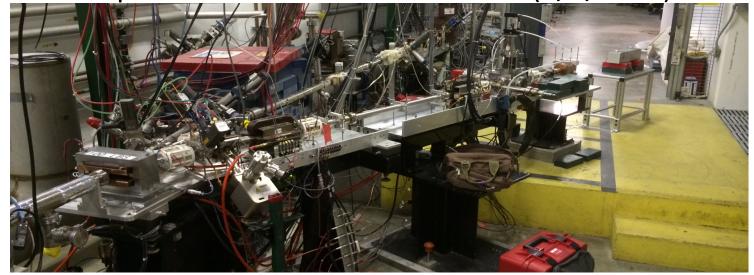
Experiment beam line installation (9/4/2014)



System	Thus Far	To Do
Vacuum	~10 ⁻¹⁰ Torr, IP's on, Vac interlock check	None
Fast valve	Valve + CCG installed, FV interlock check	None
New dipole	Measured (<0.03%) + Field Map, Installed, and aligned	Update control software
Dipole Hall probe	Tesla meter + PC104/cables (com) installed	Mount probe, PC104 on network
Transport magnets	2 Quads/LCW + 4 Corrector pairs ready	None
Position monitors	Goubau line tested, installed and elec. calibrated	None
Viewers	Installed	Air line/anti-collision
Faraday cup	Installed, LCW, current monitoring	Air line/anti-collission
Radiator	Installed, LCW, current monitoring	Lead hut, ME document thermal anal
Photon line	Collimator/Dump installed	None
Alignment	Pre-align	Final ~today

New spectrometer magnet

NMR measurements

1st pass (<0.03% midplane) 2nd pass (<0.01% midplane)

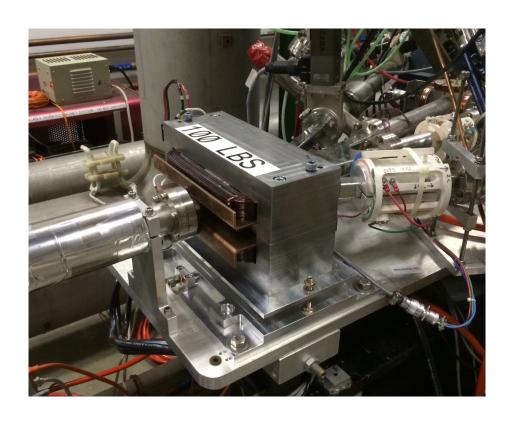
Hall probe

Grid measurements
Calibrated to NMR

Stretched wire Signal too weak



Fixture plate offset => X = -5mm, Z=1.2mm Dipole chamber roll => Y +0.1mm



Faraday Cup to Photon Dump

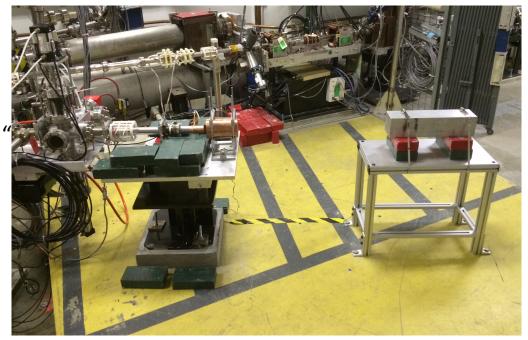
Electron Radiator
Final thickness = 0.231 +.003 -.002
ME analysis suggests 1kW OK

Shielding
Pb staged for startup
Coordinate alternative w/ RadCon

Bremsstrahlung Measurement

Detector group may have Ge detector

Estimate photon flux





Summary

New beam line should be ready for the Fall run

Commissioning plan should be submitted

- Checklist of machine protection interlocks and controls
- Checkout of beam line with electron beam

Beam Studies

- Momentum measurement
- Bremsstrahlung spectra
- Operation at high current