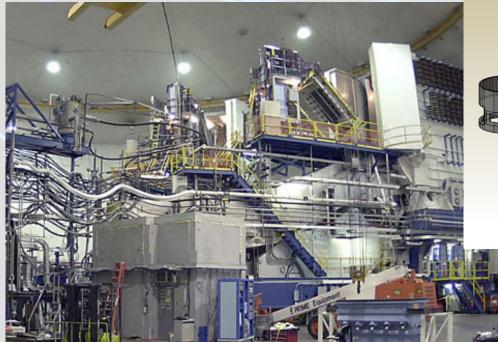
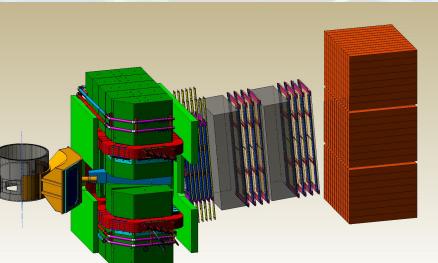


Hall A Update Thia Keppel





Hall A Collaboration Meeting December 2014



6 GeV Era

- Analyses and publications continue
 - See Camacho, Averett, Sirca, Zhu, Bloomberg talks
 - <u>Three</u> Hall A articles published in July 2014 PRL!

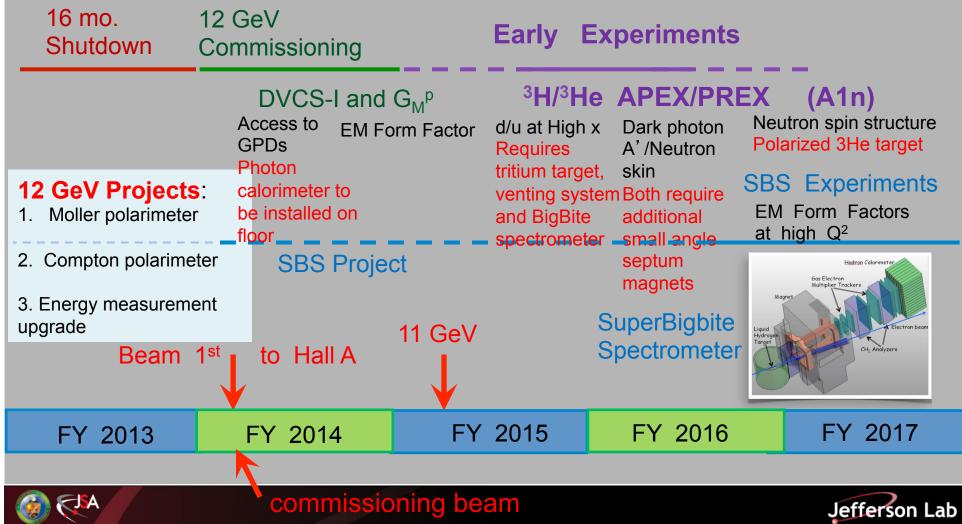






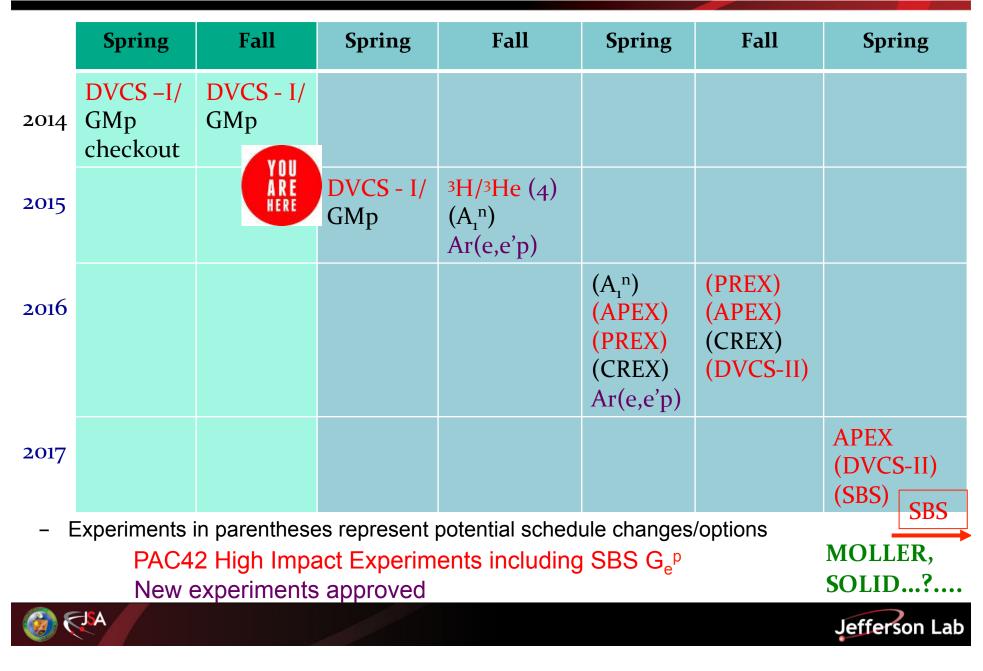
Hall A Planning

- 3 A-rated experiments in first years of running
- G_M^p (HRS-R) and DVCS (HRS-L + calo) run is combined
- Some flexibility incorporated



Hall A Projected (nearish term) Experiment Schedule

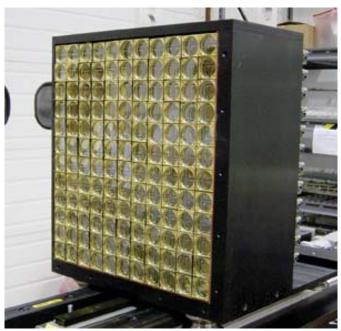
...will soon be available on Hall A wiki

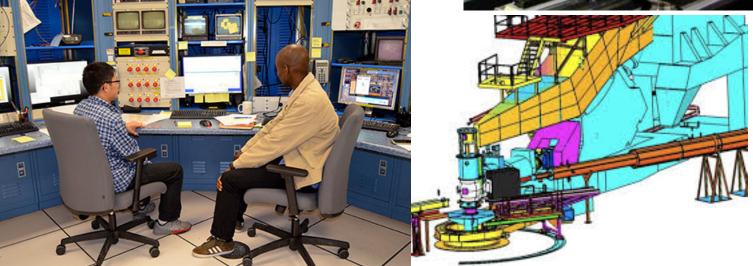


Fall 2014 Run (beam in the hall now!)

DVCS / G_M^p Experiments

- 4 pass beam, ~2 weeks left in Fall run
- Start up again mid February with 5 pass beam
- Problems with HRS Q1-R (L too?)
- See Ou, Diamini, Schmookler talks
- Target test cell
- Sign up for shifts ☺

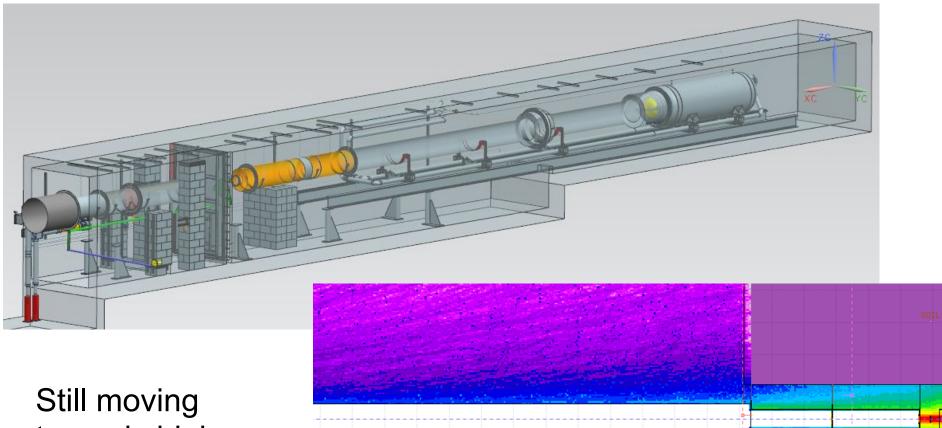




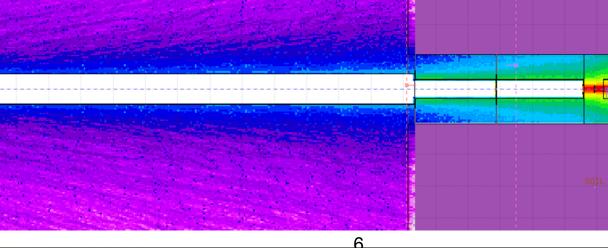




Hall A Beam Dump Upgrade



towards high current running..

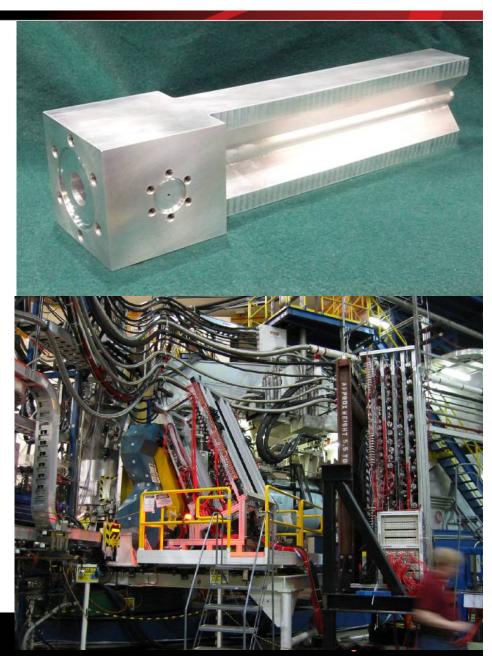






Tritium Experiment Preparations

- Two new experiments approved by PAC 42
- Preparing for (target) readiness review ~March-April
- BigBite under (re-)construction in test lab
 - Active collaboration
 - Design for modified Cerenkov
 - Plan to add SBS GEM plane
- See Tuesday morning session





Beyond ³H

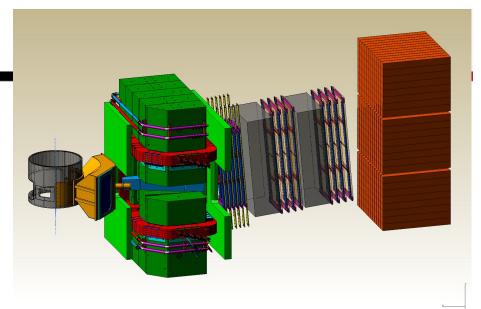
- Polarized ³He target improvements and continued development
 - Convection, new lasers, metal windows, ...
 - See Cates talk
- PREX/CREX
 - Pb targets, new coils purchased
 - Shielding designs underway
 - Computation fluid dynamics for target design
 - Polarimetry
 - Plan to test Compton (photon) in Spring 2015 Run
 - New superconducting magnet purchased
 - See Gaskell, Pomatsalyuk talks
 - See Saylor talk
- New septum magnet purchased by APEX collaboration now in test lab
 - See Toro talk

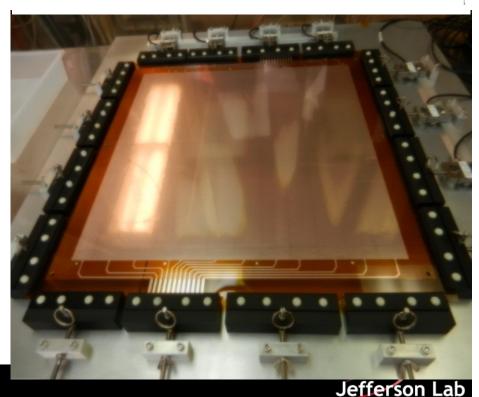




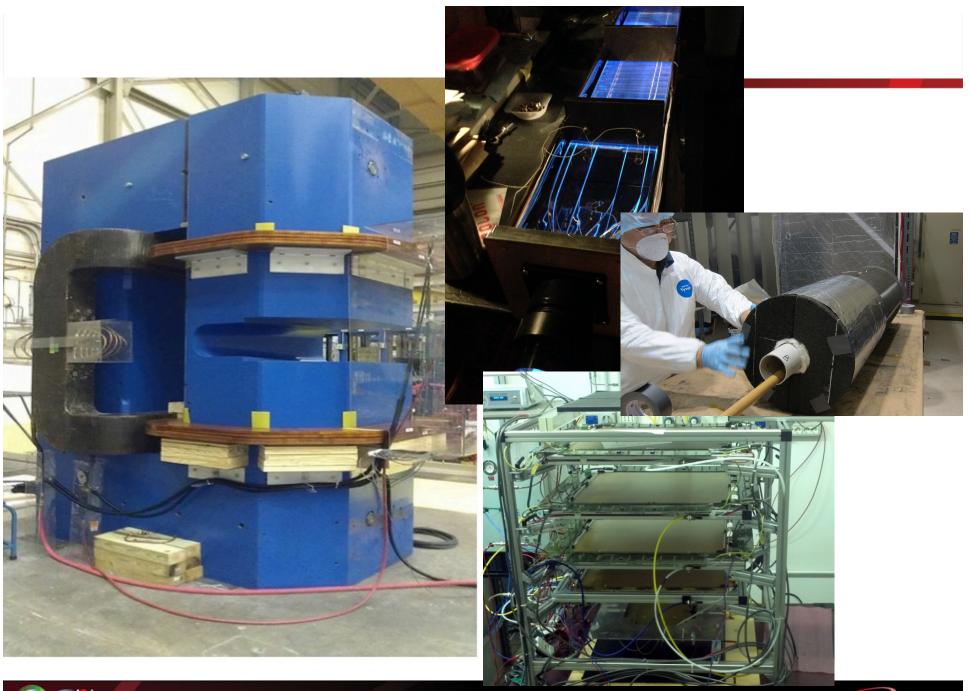
SBS Construction

- Project started October 2013
 - <u>Just</u> passed second annual review
 - Some recommendations, but <u>overall</u> <u>very positive, project on track</u>
- Spectrometer, ECAL work at JLab
 - Power Supply in hall
 - 48D48 magnet modified, assembled, tested in test lab
 - Working on support, stand, vacuum, beamline
 - thermal annealing of ECAL
- GEM construction at UVA
- Coordinate detector at Idaho State
- HCAL Hadron calorimeter at CMU
- See Jones talk





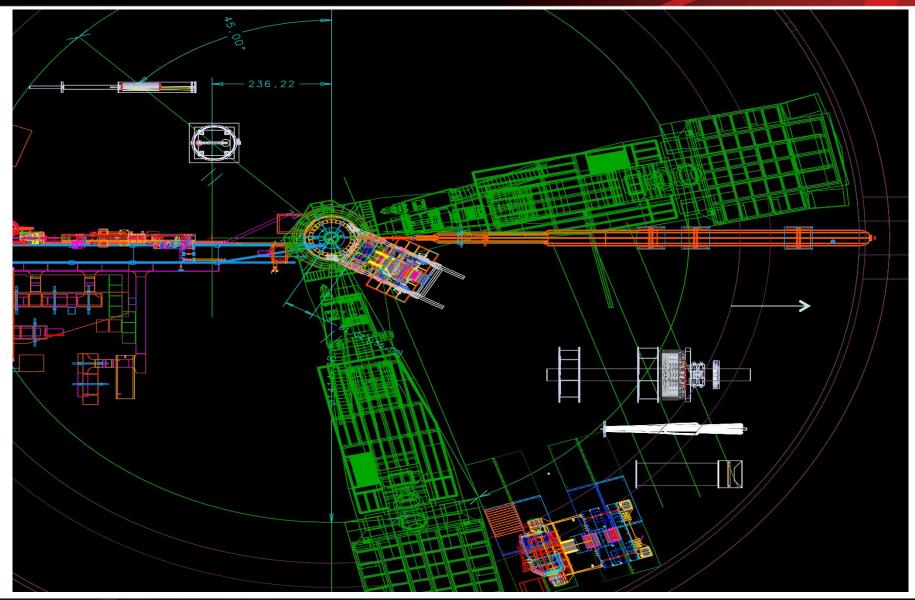








Starting to plan for future installations – example: Hall A with HRS-R, SBS, MOLLER (in 4 sections) removed from beamline, BigBite and HRS-L functional

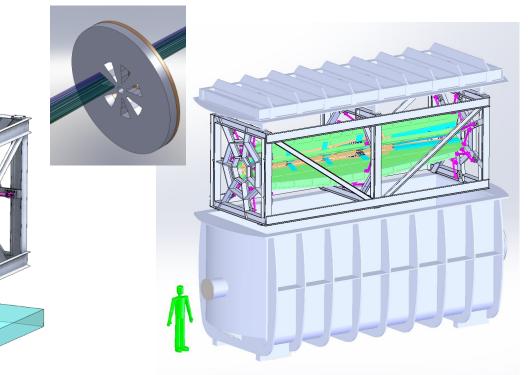






MOLLER

- DOE S&T visit 7/17, SBS, MOLLER, SoLID talk from hall
- Successful Science Review September 2014
 - MOLLER dependencies drafted
- Supporting ongoing magnet. Collimator development work at MIT
- Upgrading Moller polarimeter (new magnet, work at RPI/Temple)
- LRP Process Important
- Looking towards CD0
- See Paschke talk

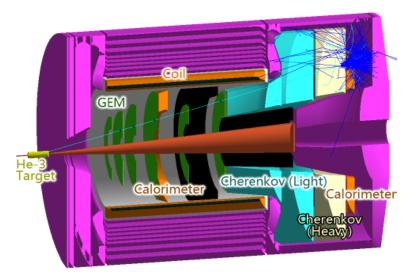






SoLID

- SoLID Experiment submitted draft CDR to Physics Division as first step for Winter 2015(?) Director's Review
 - Continued detector optimization
 - Background studies
- DOE S&T visit 7/17, SBS, MOLLER, SoLID talk from hall
 - Let them know that SoLID was submitting report, anticipating Director's Review
- Working with Cornell to move solenoid in Summer 2016
 - Hall A E&D June planning trip to Cornell
- LRP Process Important
- See Ye talk









More?.... 7 New Proposals to PAC42 (5 approved, 2 run group + ~1 LOI)

12-14-009		The EMC PVDIS Experiment: A Constraint on Isovector Dependent Nuclear Modification Effects Using Parity-Violating Deep Inelastic Scattering
12-14-010	A	Measurements of Semi-Inclusive DIS Double-Spin Asymmetries on a Longitudinally Polarized 3He Target
12-14-010	A	Measurements of Semi-Inclusive DIS Double-Spin Asymmetries on a Longitudinally Polarized She Target
* 12-14-011	A	Ratio of the electric form factor in the mirror nuclei 3He and 3H
12-14-012	A	Dihadron Electroproduction in DIS with Transversely Polarized 3He Target at 11 and 8.8 GeV
12-14-013	A	Measurement of Tagged Deep Inelastic Scattering (TDIS)
12-14-014		Proton and Neutron Momentum Distributions in A = 3 Asymmetric Nuclei
* 12-14-015		Measurement of the Spectral Function of 40Ar through the (e,e2p) reaction
LOI12-14-006	A or C	Dark matter search in a Beam-Dump eXperiment (BDX) at Jefferson Lab
* E12-11-108/E12-10-006	A	Target Single Spin Asymmetry Measurements in the Inclusive Deep-Inelastic \$\vec{N}(e,e^\prime)\$ Reaction on Transversely Polarized Proton and Neutron (\$^3\$He) Targets using the SoLID Spectrometer





• Questions?



