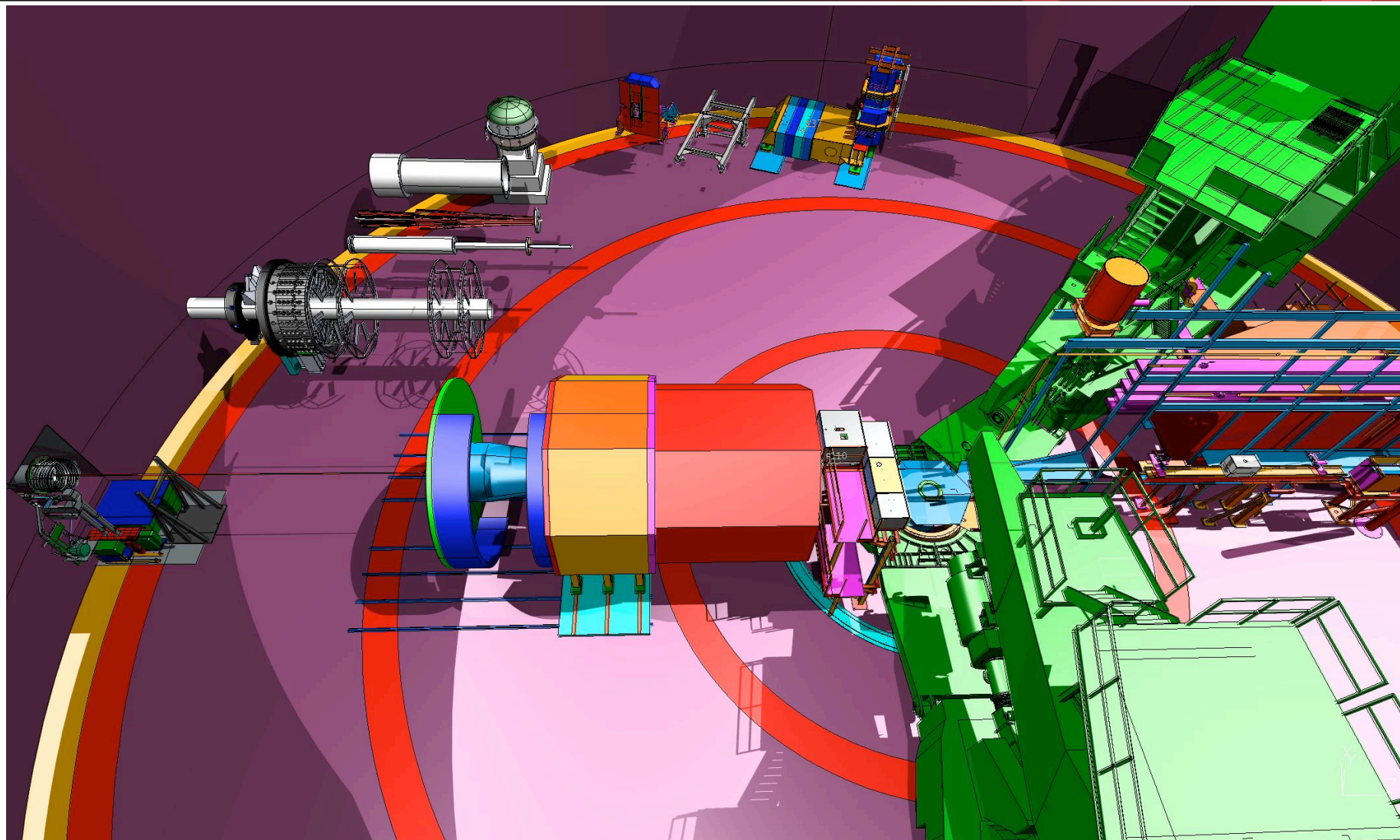




Hall A Update

Thia Keppel

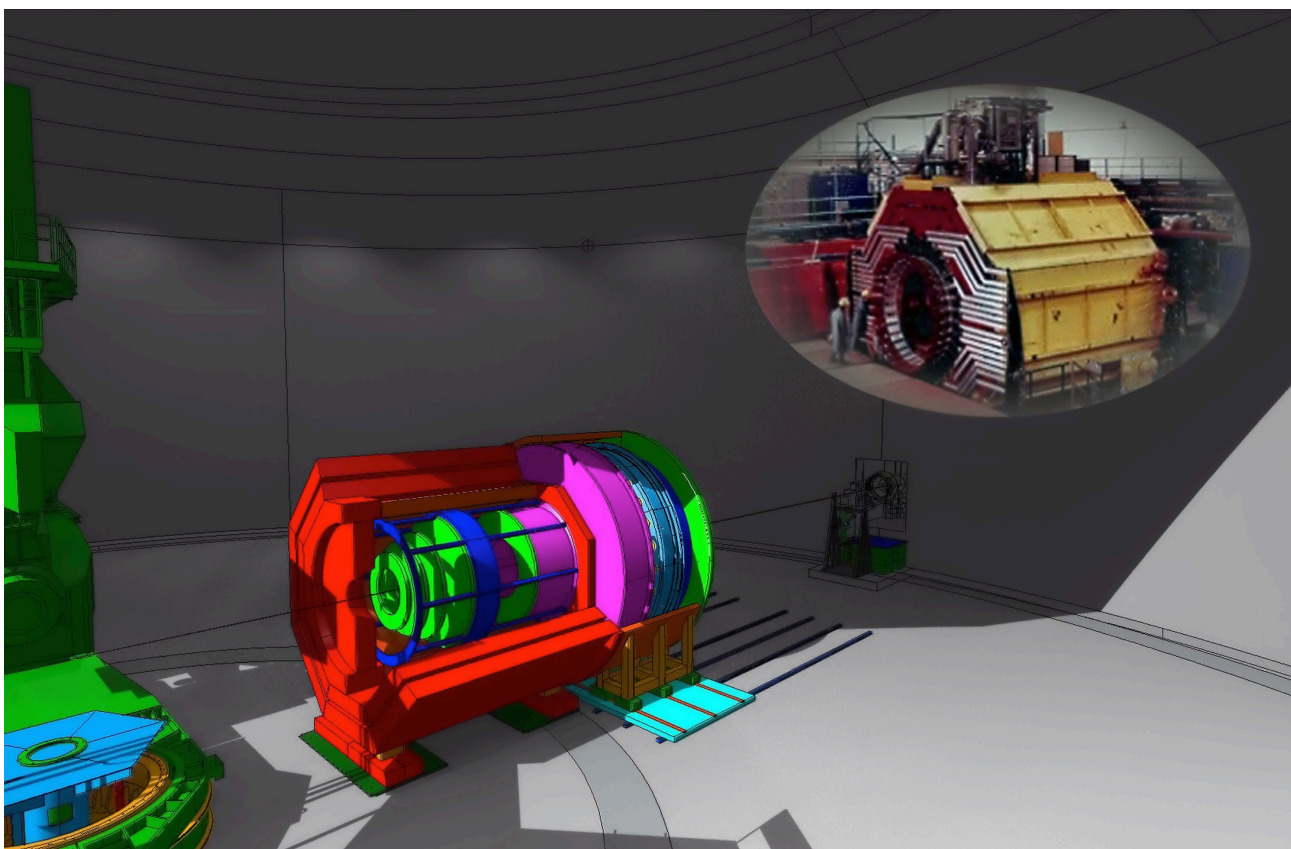


SoLID Collaboration Meeting
May 2015

Jefferson Lab
Thomas Jefferson National Accelerator Facility

Hall Support

- See Robin/Whit's talk
 - Helping address recommendations
- As usual, a lot of work on the Hall E&D team's plate...
 - Fitting in as possible



Where to go from Director's Review?

- Revise proposal to address recommendations, comments,...
 - Need a “to do” list with names
 - Timing of revised proposal completion is up to the collaboration
- Create a concise tracking document for the above to note where/how/if each review point was addressed
 - Should be brief and refer to proposal, not a review response document!
 - Also suggest documenting any other changes to proposal, could be same or additional (brief!) document
- Beyond the technical, need to better elucidate and strengthen physics case
 - Create “banner plots”

Strengthening the Physics Case

- Unique, A+ measurements are **essential** for such a large funding request.
- An expensive device for a "multi-purpose" program should be a strong argument, but need to both
 - elucidate this, and
 - underscore it with some unique science
- Create plot to make quantitatively very clear that the polarized ^3He SIDIS program will be the best worldwide program for neutron SIDIS measurements
- PVDIS unique and high priority
 - Put together a bullet-proof defense of the PVDIS program (technical and interpretational)
 - d/u case will diminish with collider data, MARATHON, BONUS12,... all coming in the next ~5ish year pipeline. CSV?
 - Be ready to quantitatively answer how much better SoLID does than something like a three year run with HMS-SHMS?
- GPD case suggested by committee
 - $e+p \rightarrow e+p+(e+e^-)$ was mentioned as reaction which is effectively inaccessible in CLAS12
 - Be ready to compare to CLAS12 with an upgrade to a luminosity of 10^{36} (apparently not impossible on the timeframe of SoLID)
 - Exclusive measurements with the mediocre resolution of a solenoid may make GPD's a challenge