Hall C Research Program

- Have been running experiments since November 1995
- 417 PAC Days run, or 17.83 experiments
- 323 PAC Days in queue, or 15.67 experiments
- 53 Ph.D. Subjects, 37 Ph.D.'s awarded
- 23 refereed publications to date (not including NIM papers)
- 2 additional papers submitted

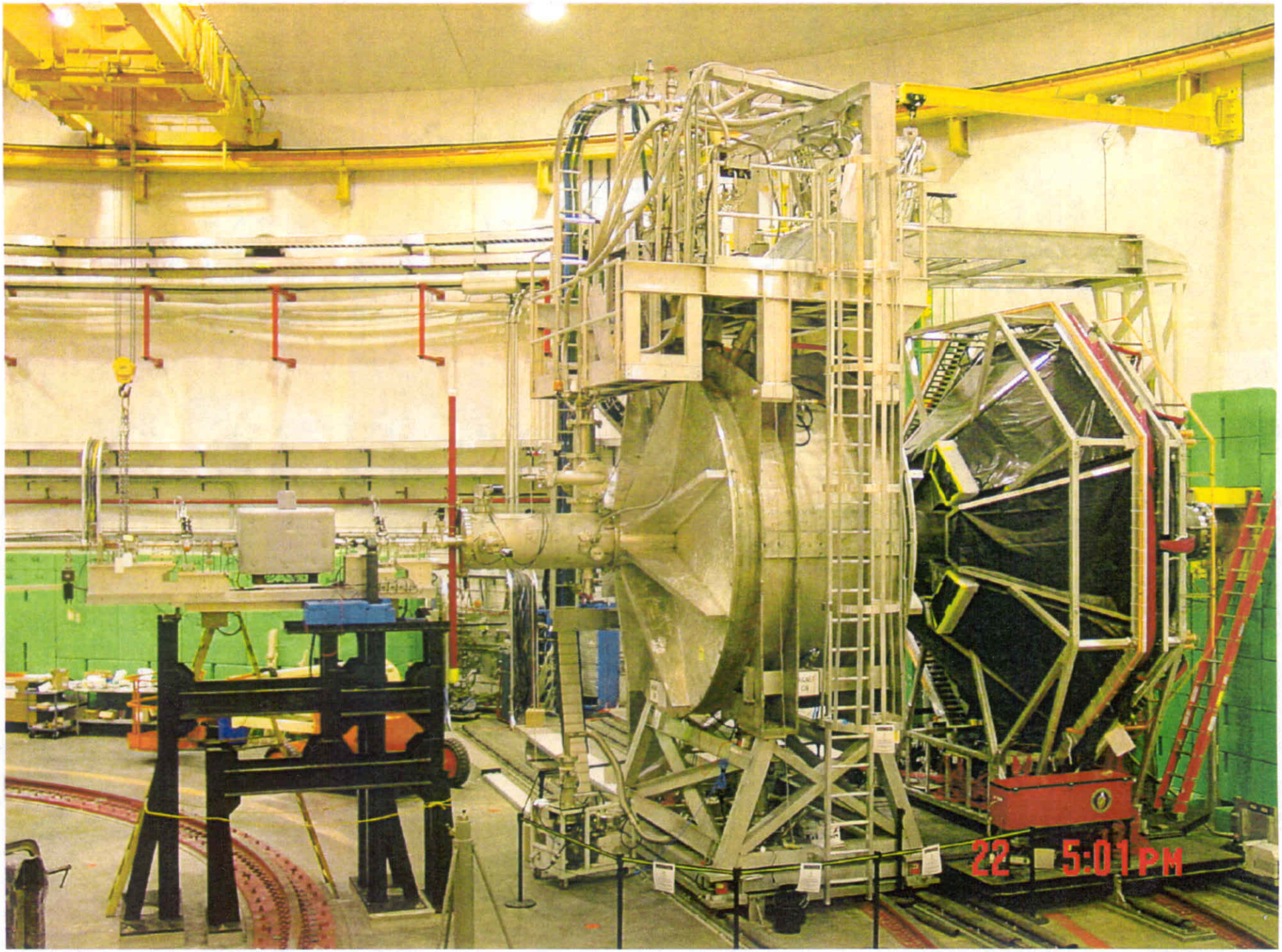
Please mail Rachel any info on
- publications
- conf. proceedings
- talks

on Hall C related subjects !

"New" Experiments"

- PAC 21
  - E02-017 Fission Program (Jeopardy) 7/B+
  - E02-019 x > 1 Program (Jeopardy) 28/A-
  - E02-020 Qweak 23/A
- PAC 22
  - E02-109 R in Deuterium 13/B+
- PAC 23 (Requests)
  - E03-001 Soft/Hard Factorization 26
  - E03-002 A1p 29
  - E03-008 Sub-Threshold J/Psi 7

~70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2002 Accomplishments

- Ran E01-006 resonance spin structure (Rondon, Jones)
- Transition from E01-006 to G0 experiment (Beck)
  - –Remove polarized target
  - –Install G0 Spectrometer System
- G0 Beam Development Runs in August and September
- Start of 1st G0 Engineering Run @End of October
- G0 Spectrometer System Commissioned at 5000 A
- Run until January 23rd, 2003

2003 Experiment Schedule

- Run E00-006 (G0) to January 23
- Transition from E00-006 to Series of Base Equipment Experiments
  - –Move G0 Spectrometer System
  - –Install regular scattering chamber, 4 cm LH2,LD2 targets
- Start of Base Equipment Experiments @Early April
- E00-002, E01-002, E00-116, E01-004, E00-108 thru End of August
- Transition from Base Equipment Experiments to E00-006 Experiment (Beck, 2nd Engineering Run)
- Run 2nd G0 Engineering Run

Long-Term Experiment Schedule

- Run E00-006 (G0) thru February, 2004
- Transition from E00-006 to either Series of Base Equipment Experiments utilizing Nuclear Targets (IF 6 GeV)
  - EMC Effect of Few-Body Systems (Arrington)
  - $x > 1$ (Arrington, Day, Filippone, Lung)
  - Pion Color Transparency (Garrow)
- Or to Hypernuclear Physics (IF Happex-He in Hall A)
  - HKS Experiment (Hashimoto, Nakamura, Reinhold, Tang)
  - Fission Detector Test (Margaryan, Tang)
- Hypernuclear or Nuclear Targets (whichever did not run)
- Transition to E01-116 Experiment (Beck, G0 Backward)
- G0 Backward Run (2005)
- GEp-III Run (Brash, Jones, Perdrisat, Punjabi)?

Hardware

- G0 Magnet, Target, Cryogenics, Electronics
- HMS Aerogel (Yerevan) — in HMS
- Novel Fast Raster (Yan, Sinkine) — in Beam Line
- New Beam Dump Line (Carlini, Brindza) — construction
- SOS Stairs, Pivot Railing (Kellner et al) — construction
- HMS Power Supply (Brindza) — on travel
- HMS Controls – in progress (Lassiter)
- HKS Magnet/Detector Construction (Hashimoto)
- GEp-III Calorimeter (Perdrisat et al)

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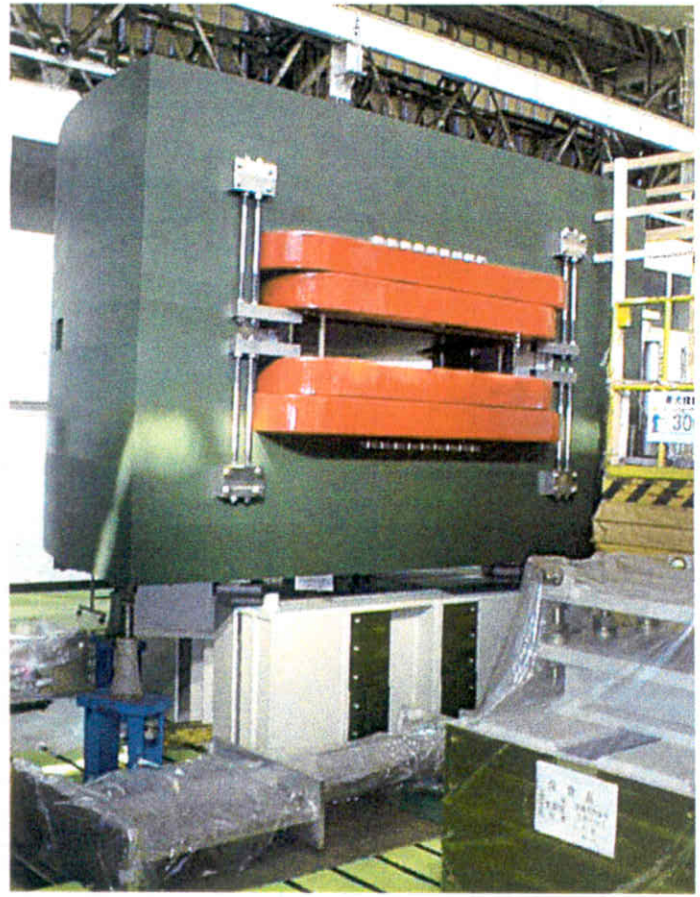
HKS Dipole Magnet

- HKS-D fabrication and assembly finished
- Specification for the field map is under discussion



Additional Work (in Progress)

- Work on Systematics (HMS Tracking and Spin Transport, Beam Energy, Moller, etc)
- Make Hall C Webpages more useful (Ph.D. theses, publications, base equipment descriptions, experiment info, highlights)
- Start Work on Operating Manual (in form of recipees)
- Work on 12-GeV pCDR for Hall C (SHMS + Physics)
- TOSCA of complete HKS spectrometer

Physics Staffing Changes

- Hired Additional Physicist : Dave Gaskell
  - Support Function: Polarimeters
  - Redefine responsibilities
    - Fenker to Detectors, Mack to BCM+Systematics, Keppel backup for target, Carlini to parity beam line + new target
- Two New Postdocs: Julie Roche and Glen Warren
- Allison Lung Moves to Assistant Director
- Search for Replacement in Progress

Technical Staffing

- Hired Additional Designer
  - Bert Metzger to permanent position
  - Paulo Medeiros hired in temp position
- Electrical Engineer Extended
  - Nikolai Sinkine to finish raster projects
- Contractor Electric Associate
  - Eric Anderson (G0, GEp cabling, beam line cabling)
- Hired Additional Cryotech
  - Charles Lassiter in permanent position
- Extended temp Technicians
  - Greg Sammons and Samuel Hicks