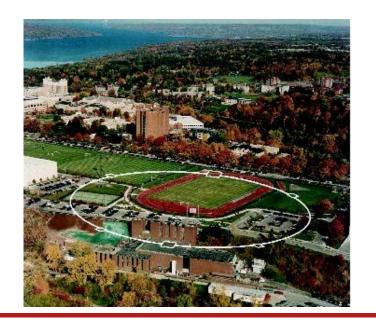
CesrTA Status Report

Mark Palmer July 8, 2009









Overview

Recent News

- Completed Run #3 (May 12 June16)
 - 109 of 240 planned running days now provided
 - Major focus on commissioning efforts
- CTA09 (June 25-26)

https://wiki.lepp.cornell.edu/ilc/bin/view/Public/DampingRings/CTA09/WebHome

- Major review of experimental program
- 40 participants
- Planning for next 4 runs (Aug '09, Nov-Dec'09, approx. Mar '10, approx. Jul '10)
- Organize shift from commissioning focus ⇒ experimental focus
- Final upgrade down nearing completion
 - Machine Startup July 23rd
- Next run starts July 31st (to Sept 8th)

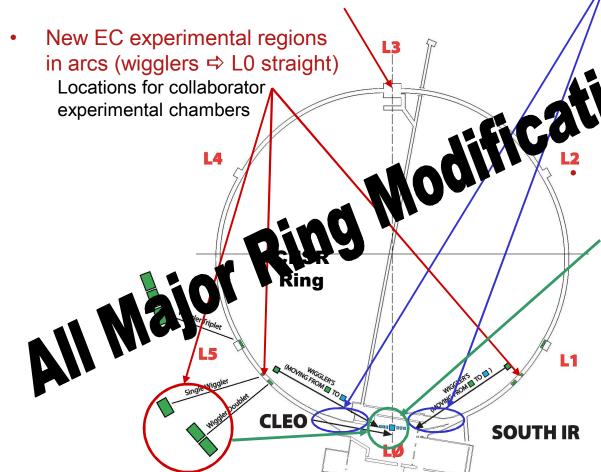


CESR Reconfiguration

L3 EC experimental region

PEP-II EC Hardware: Chicane, upgraded SEY station (coming on line in May)

Drift and Quadrupole diagnostic chambers



CHESS C-line & D-line Upgrades

Windowless (all vacuum) x-ray line upgrade

Dedicated optics box of the or each line

Detectors share space in CHESS user

L0 region reconfigured as a wiggler straight

CLEO detector sub-systems removed

6 wigglers moved from CESR arcs to zero dispersion straight

Region instrumented with EC diagnostics and mitigation

Wiggler chambers with retarding field analyzers and various EC mitigation methods (fabricated at LBNL in CU/SLAC/KEK/LBNL collaboration)



Status Update

Key tasks: – BPM system upgrade:

 Commissioning work continued during May-June run. Pushing towards full switchover to new system by late summer

xBSM upgrade:

- Commissioning continued work during May-June run including first single-pass measurements
- Complete electron line deployment during present down and commission (underway)

4ns upgrades

- 4ns feedback system commissioned during May-June run
- Upgraded 4ns digitizers for xBSM (component testing during Aug run ⇒ targeting standard operation by Nov-Dec run)

L3 EC Hardware

- Chicane and EC chambers commissioned during May-June run
- SEY station development and testing underway (in situ measurement upgrade of SLAC hardware)

New EC vacuum chambers

- Wiggler chambers with grooves and electrode mitigation (CU-KEK-LBNL-SLAC) [Groove chamber in preparation for installation Aug 20]
- Upgraded RFA detectors under development (first units installed)
- Diagnostic quadrupole chamber for L3 experimental region (installed)
- Collaborator chambers: CERN (α-C coating installed); FNAL (enamel with electrode – late 2009); SLAC (new groove design - installed)
- Reviewing requirements for L3 NEG-coated chamber test
- · Additional chambers depending on initial results through remainder of program
- EC solenoid windings on CESR drifts (underway)
- 4 runs planned over course of next year
 - Each approximately 1 month duration