



CesrTA Update

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CesrTA Schedule and Status

- Jan 2-Feb 2: Commissioning/Experimental Run
 - **Low Emittance Optics**
 - **X-ray Beam Size Monitor Commissioning**
 - **Turn-by-Turn BPM System Deployment/Testing**
 - **4ns Feedback System (particularly longitudinal)**
 - **EC Instrumentation (RFA, TE Wave, Ant. Pickups) Development**
 - **EC Measurements**
 - Build-up
 - Dynamics
 - **Over a dozen collaborators planning to participate**
- Feb 2-Mar 2: Down
 - **Re-install repaired SRF cavity**
 - **Install EC experimental hardware from PEP-II**
 - **Install photon beam stop for L0 wiggler straight (for higher energy wiggler operation)**
 - **Electron xBSM – installation of beam line front end**
- March Recovery followed by CHSS run
- Next CesrTA run period immediately following PAC09



CesrTA Updates Since ILC08

- As described at ILC08, we had a successful startup after converting CESR to the damping ring configuration
- Nov 18 – Received PEP-II EC hdw from SLAC
- Dec 24 – Removed xBSM optics assembly for installation of upgraded optics
 - **Assembly and prototype optics element (slit/CA) damaged due to a direct x-ray strike during CHESS operations**
 - **Causes: Moveable optics assembly not fully retracted out of beam-line aperture; built-in masking (on mount) in this position did not protect against an angular strike on the sensitive portion of the assembly**
 - **Response: Repaired damaged mount, added additional masking, mounted new optics elements**
- Dec 31 – Installed repaired xBSM optics assembly with new Fresnel zone plate and high count coded aperture
 - **Assembly will be removed after CesrTA run**
 - **Completely redesigned assembly will be prepared for use in May (likely will lose 2-3 days during May startup for installation)**
- Jan 2 – CESR restarted successfully after holiday down
- Jan 6 – Switch to 2GeV (with 12 1.9T wigglers) for low emittance optics work (most work during January to be carried out in this configuration)