

CesrTA Machine Studies Task Overview

I. Experiment Description

Experimental Topic	Streak Camera Setup for bunch length measurement	
Classification*	INST	
Coordinator/ Experimenters	RLH	SW, RLH
Primary Goals	Setup the streak camera to measure bunch length for IBS study	
Description†	<ol style="list-style-type: none"> 1. Revive the settings of streak camera from 2012 April run 2. Make sure the streak camera works fine 3. Test the new caLab setup to push the bunch length data into the correct node in the MPMnet database. <p>Note: it can be done parasitically with xBSM instrumentation.</p>	
SpecialNeeds/Requests		
Prerequisites‡	Personnel	Description
Install caLab codes	SW	Install a caLab Labview codes on the streak camera PC
Modify Labview	SW	Modify the Labview program to use caLab codes
Open IOC ports	MJF	Create IOC ports in EPICS server for the streak camera
Time Requested§	No. Shifts	Principal Tasks
4hr	1	

* Machine Studies Classifications:

- EC – Electron Cloud
- LET – Optics Correction and Low Emittance Tuning
- IBS – Intra-beam scattering studies
- xBSM – x-ray Beam Size Monitor
- INST – Instrumentation (BPM development, RFA development, other)
- MDEV – Machine Development (includes injection configuration, injection tuning, custom orbit setup, instrumentation preparation, etc.)
- MREC – Machine Startup (recovering conditions after down period or access)

† Attach additional pages for experimental description if needed

‡ Indicate other machine work that is required in preparation for this machine studies experiment.

§ Indicate the principal shift topics and estimated number of shifts required

II. Machine Studies Assignments

Reserved for Project Management Team Use		
Topic ID		
Priority **		
Shift Assignments	Date	Shift

** Priority Scale:

1. Critical – results are necessary for preparation for subsequent down/run periods
2. Very high – results are strongly desired for achieving program milestones or in preparation for subsequent down/run periods
3. High – results are of immediate interest but not require
4. Moderate – results should be pursued at the first convenient opportunity
5. Low – results are not presently a high priority for either project milestones or planning