CesrTA Machine Studies Task Overview

I. Experiment Description

Experimental Topic	vBSM Characterization of horizontal beam size		
Classification*	INST		
Coordinator/	SW	SW, DLR	
Experimenters	5 11	SW, DER	
Primary Goals	Characterize vBSM resolution		
Description [†]	 Align the newly installed slits (1 vertical and 2 horizontal slits) Record the correct settings of each slits in the Labview program Measure the horizontal beam size by dialing the special knob, which changing the phase between two RF cavities to minimize the x-z tilt at vBSM positions. Check both positron and electron vBSM. 		
Special Needs/Requests			
Prerequisites [‡]	Personnel	Description	
Create special knob	DLR	Create a special knob to minimize x-z tilt at vBSM	
Time Requested§	No. Shifts	Principal Tasks	
6hr / beam	1		

- 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)

^{*} Machine Studies Classifications:

[†] 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