

Run Coordinator Report

Rakitha S. Beminiwattha

Department of Physics, Syracuse University

February 16th, 2016

Outline

Last Week : Feb 10-12 2016

Weekend : Feb 13-14 2016

This Week : Feb 15- 2016

Open Issues

To-Do

Last Week Update

- ▶ Lost beam-time due to MCC work on Arc dipole
- ▶ Unable to complete the beamline commissioning : Centering, raster, carbon hole
- ▶ We fixed (temporarily) the raster : One set of coils per direction and only up to 2-pass (halog 3378185)
- ▶ IPM1H04A and IPM1H04E BPMs had Y- and X- wired wrong (halog 3378234)
- ▶ Friday we switched to 2-pass in preparation of DVCS optics (L-HRS at 38.04 deg. Calo. at 27 deg. while R-HRS at 65 deg)

Weekend Update

- ▶ Beamline commissioning
 - ▶ Beam centering and raster checkout done (halog 3378816)
 - ▶ Compton chicane tune done (halogs 3378900, 3378948, 3379379)
 - ▶ We observed Compton collisions
 - ▶ Planning to use Compton as a halo/tune monitor (halog 3379439)
 - ▶ BPM calibration done (halog 3379260)
 - ▶ Harps checked out, we did harp scans 1C07A and B, 1C12, 1C18 A and B. see summary in (halog 3379144)
- ▶ DVCS Optics Calibration
 - ▶ Calorimeter calibration is done (halog 3379660)
 - ▶ Optics target checkout at 2-pass is done (halog 3379657)

This Week Update



- ▶ In preparation of DVCS production (L-HRS at 37.14 deg. Calo. at 15.198 deg at 1.5 m from the target. while R-HRS at 52 deg)
 - ▶ R-HRS unable to move smaller angles beyond 52 deg due to Calorimeter stand

This Week Update

- ▶ MCC tried to fix the high current issues on Monday but failed
- ▶ During Monday SWING and Tuesday OWL : We were able finish all pre-production checks for the DVCS (halog 3379817)
- ▶ Took data to determine rastered or un-rastered beam for DVCS production : Results?
- ▶ DVCS just started production data towards the end of Tuesday OWL
- ▶ Moller target issue is getting fixed during Tuesday DAY

Open Issues

- ▶ Fix raster to use two set of coils : Planning for Thursday or next Tuesday
- ▶ MOLLER polarimeter : target issue
- ▶ High beam current operation (going over 15 μA without tripping the machine)
- ▶ RSAD limitation for going over 25 μA with target

Short Term To-Do List

- ▶ Polarimetry - Plan is to try to do a MOLLER measurement tomorrow
 - ▶ If MOLLER not available soon, do a MOTT polarization measurement?
 - ▶ Possibility of using the Compton polarimeter
 - ▶ We also need to do a mini spin dance (coordinate with Hall D)
- ▶ BCM Calibration - Do a initial calibration tonight if possible but need to coordinate with Hall D to do a full BCM calibration with Faraday Cup (FC)
- ▶ Energy measurement