

Status of Instrumental Beam Studies and Technical Description of Detectors and DAQ

February 3, 2017

Beam Systematic Studies

I. Run I:

- I. Deadtime Study – Asymmetry vs beam current scan:
7968 – 8004 (1 μm , 0.2 – 4 μA)
- II. PMT Discriminator Threshold scan: -25 – -100 mV
- III. Dump Dipole scan: 0, -5, +5 A
(Through hole, 0.225 μm , 0.5 μm)

II. Run II:

- I. Relative rate scan of all foils with PC=OFF
- II. No timing veto: rates and spectra for all foils

Detector and DAQ Write-up

- I. First draft was sent out
- II. Remaining topics:
 - 1. ToF calculations
 - 2. Helicity signals
 - 3. Scalers
- III. Do we want to include results from Copper and Silver test runs