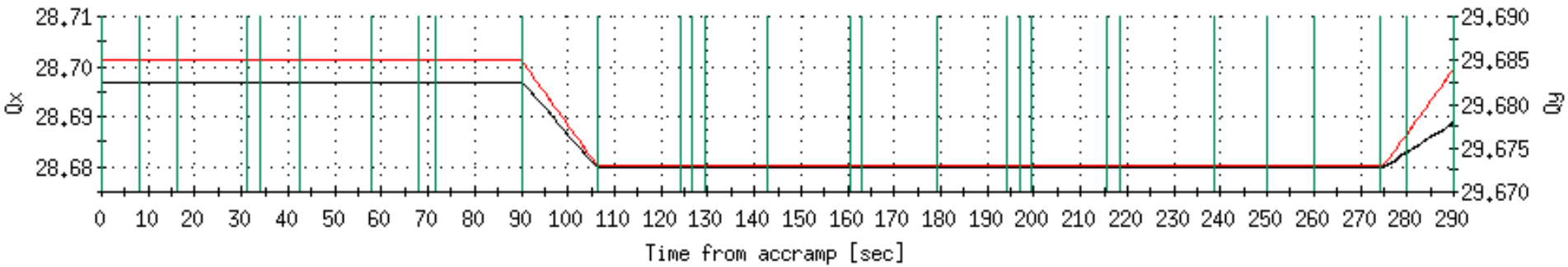
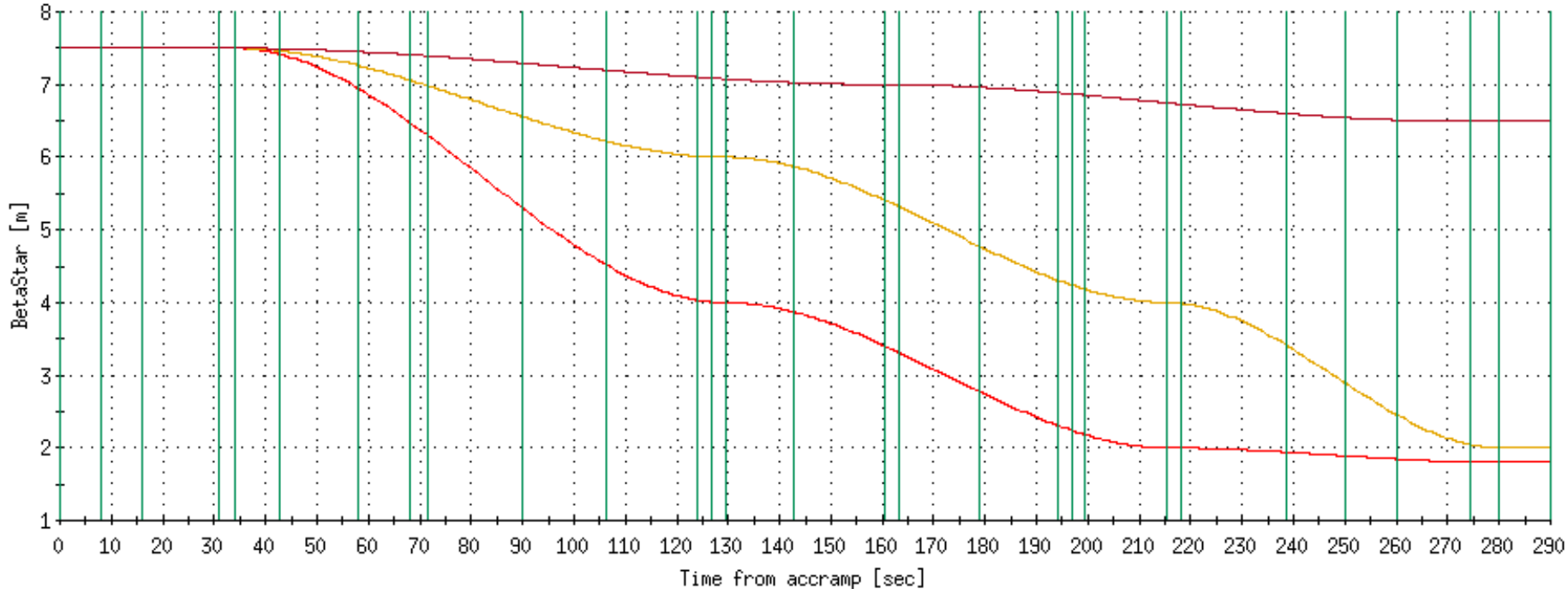
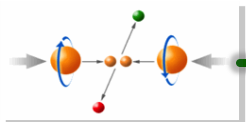


# Development of pp12b-v4

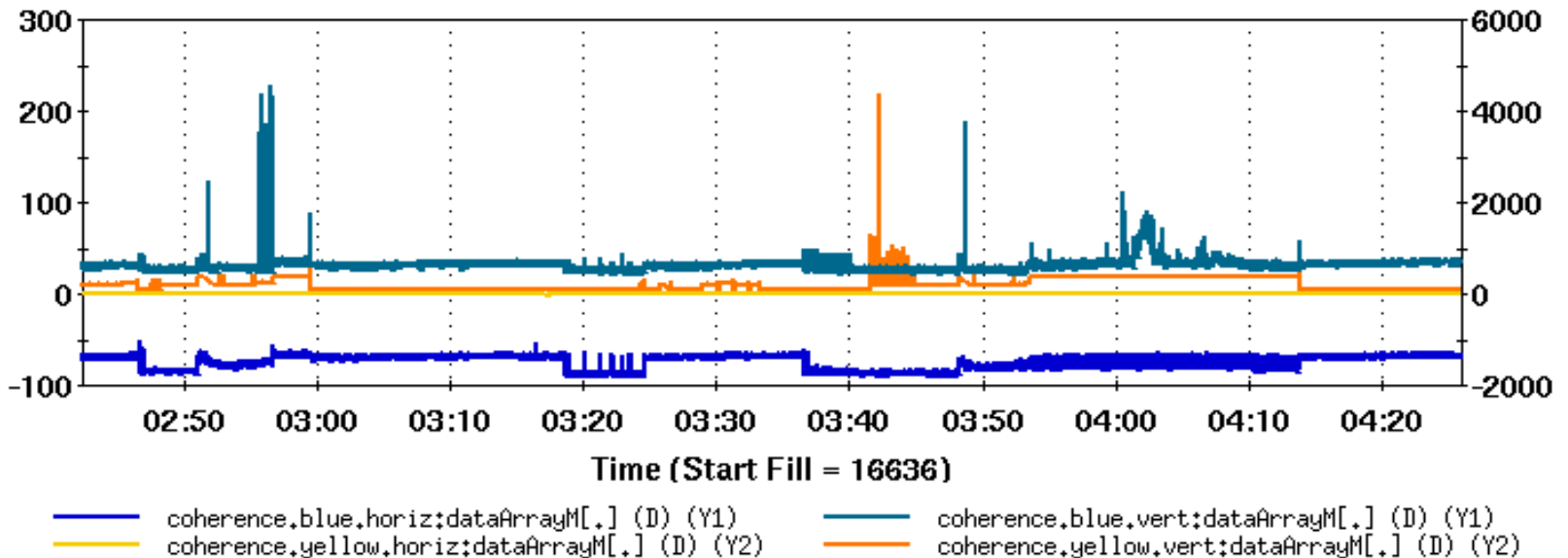
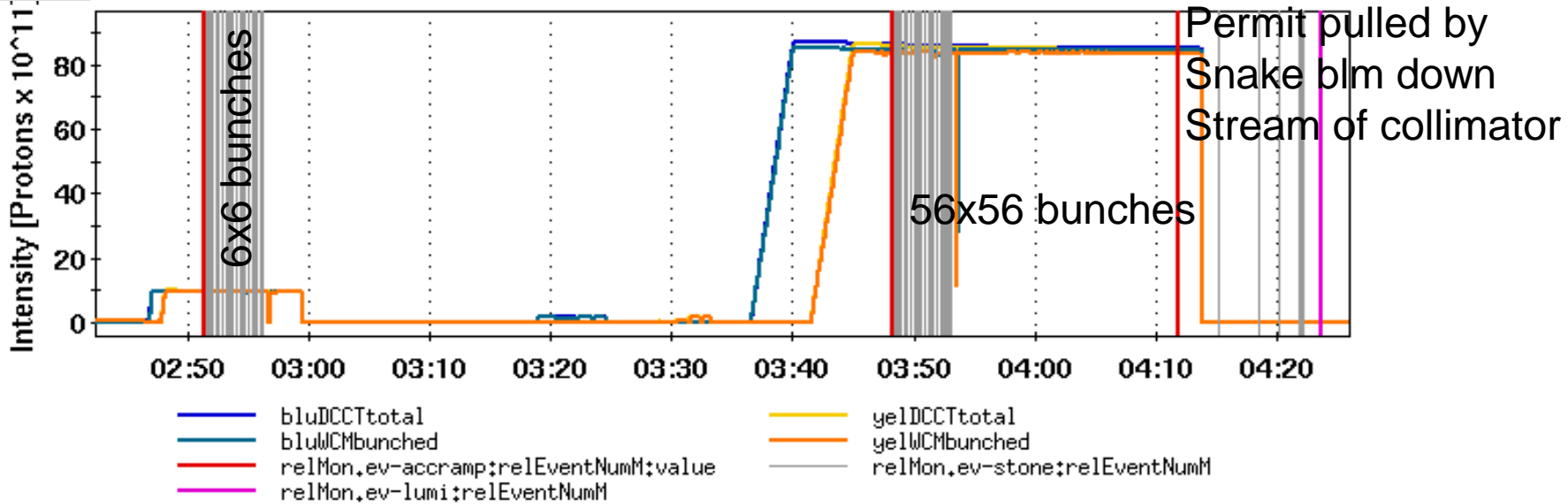
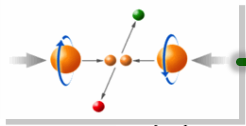
M. Bai, A. Marusic, S. Tepikian, C. Zimmer, Ian, Sean, Dave

# What is pp12b-v4?

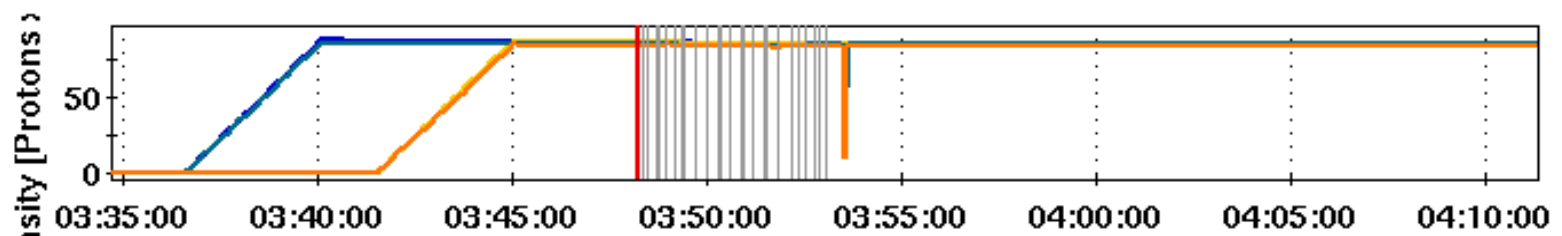
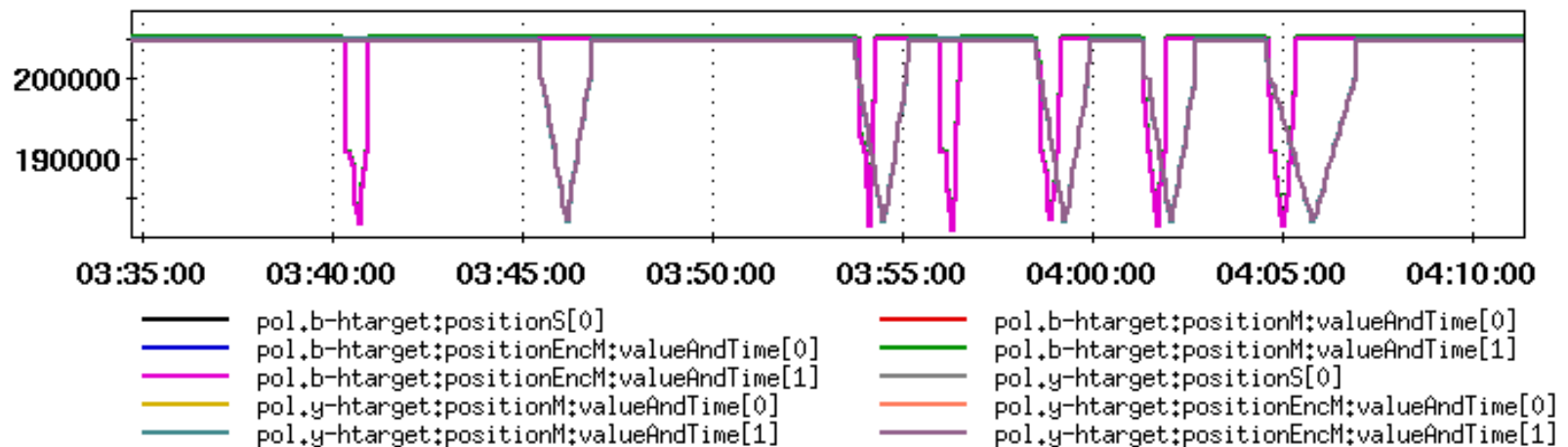
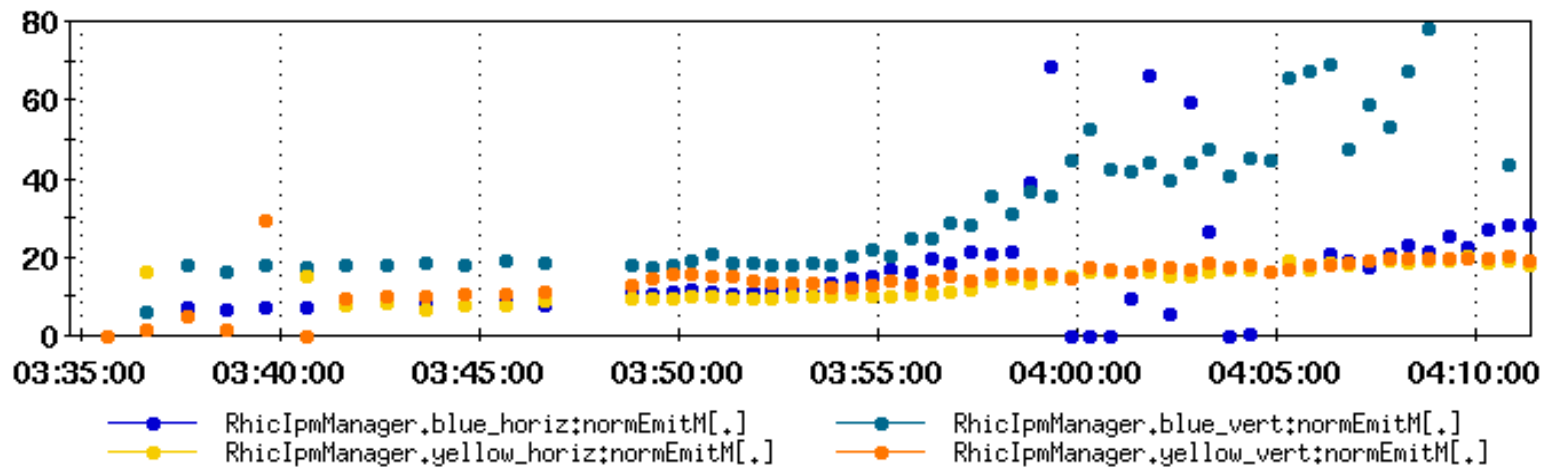
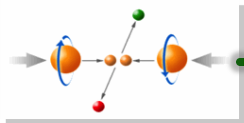


— Qx (Y1)    — Qy (Y2)

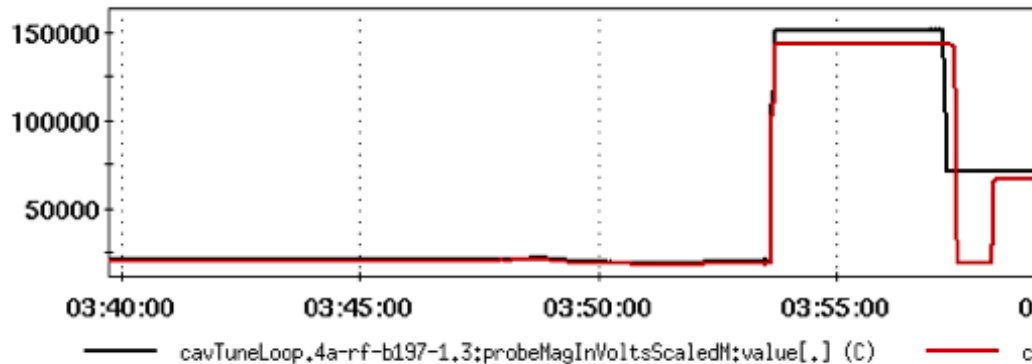
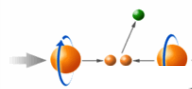
# Overview



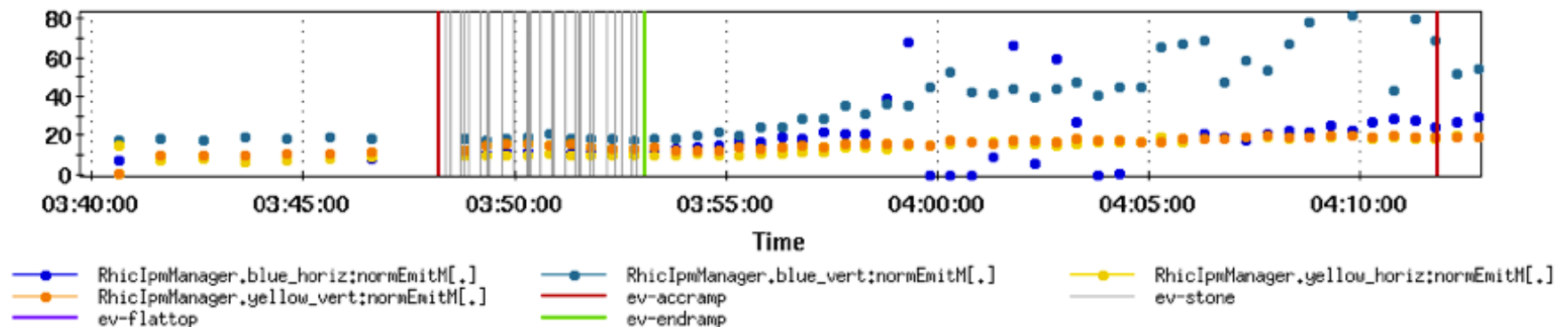
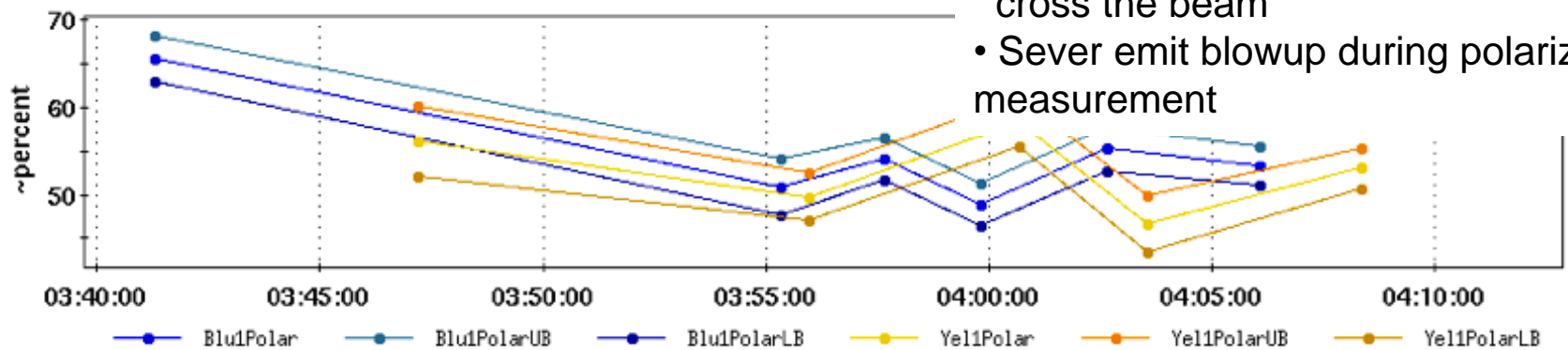
# Effect of Polarimeter on Beam

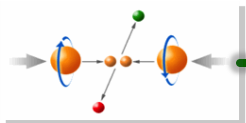


# Polarization Transmission Efficiency



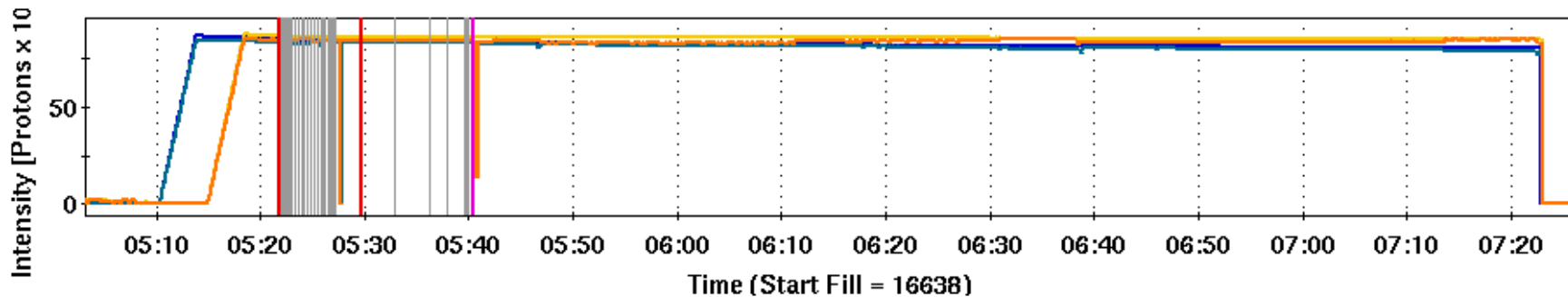
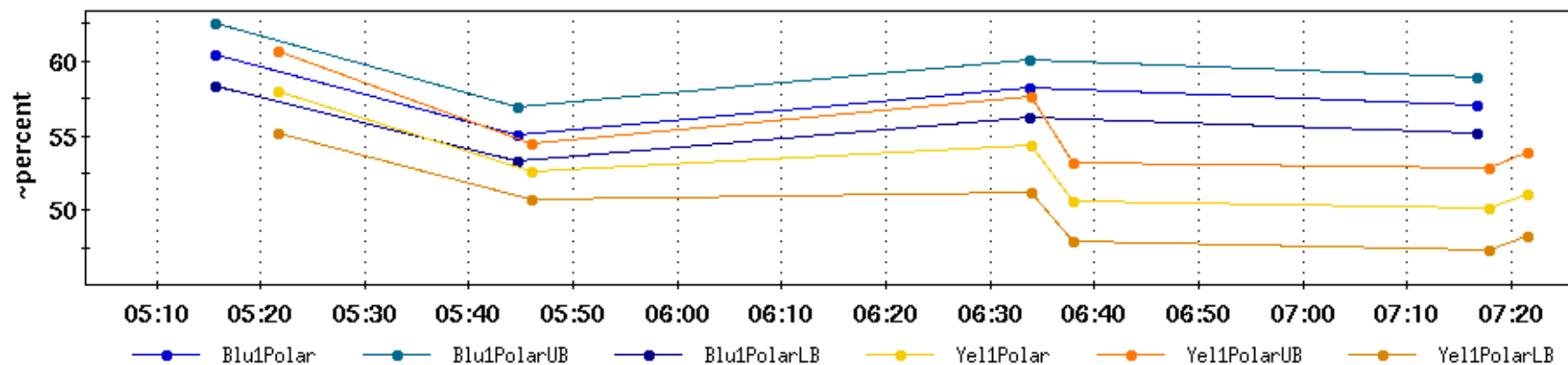
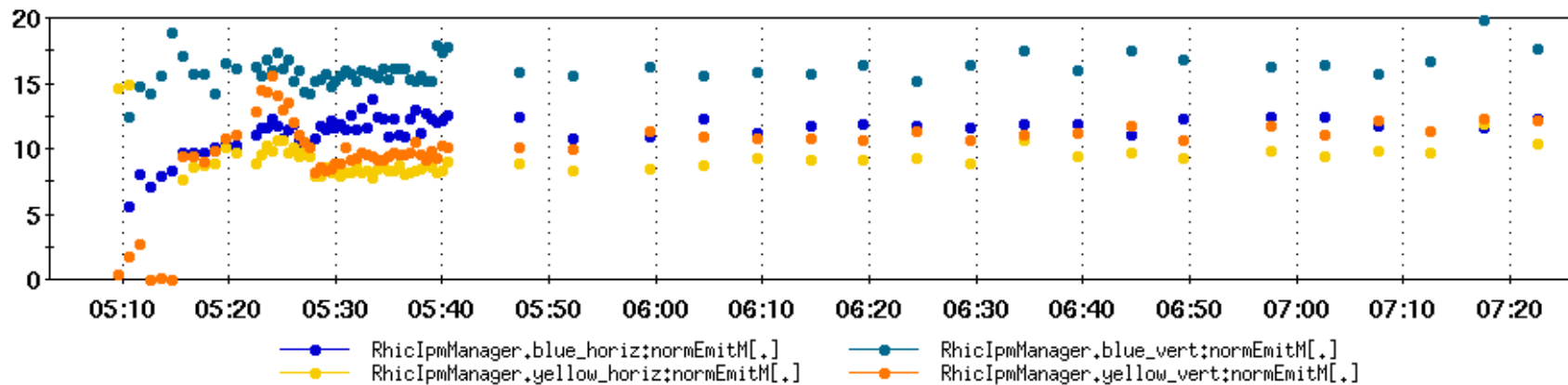
- main ramp went very smoothly
- rot4 ramp didn't go through due to: 1) 10Hz feedback 2) snk blm permit pull due to the spread from collimator
- pC measurements showed large fluctuations, which seems to be associated with tgt didn't quite cross the beam
- Sever emit blowup during polarization measurement



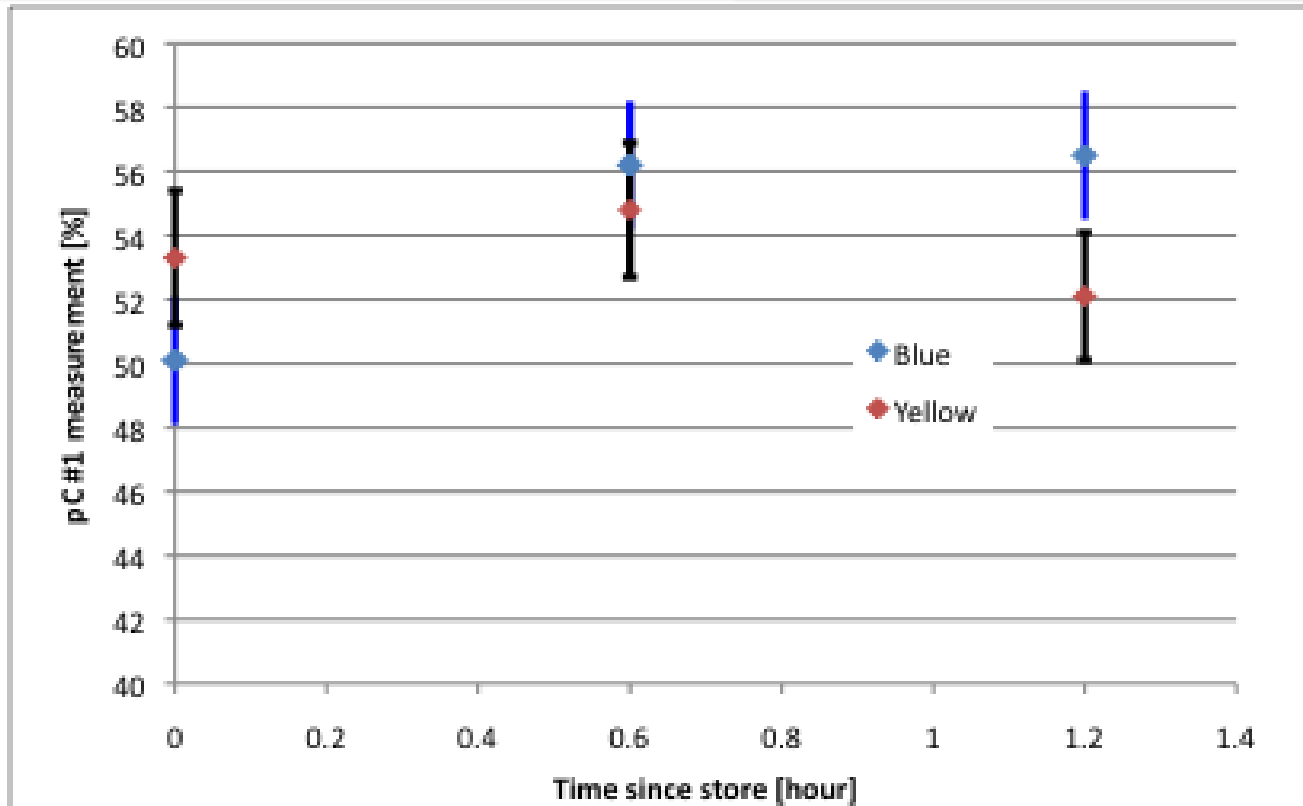
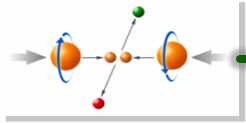


Effect of  $11/16$  on Polarization Lifetime w.o.  
collision

# Overview



# Polarization At Store



- The pC polarimeter data seems to indicate that the effect of 11/16 on polarization is less than 5%
  - orbit much better than 2009. To confirm, measure polarization with  $Q_y=0.6875$  during ramp
  - polarization is dominated by beam-beam
- $Q_y = 0.68$  in Blue seems to have no impact on polarization lifetime at all, as expected