Run34 quick beam analysis report

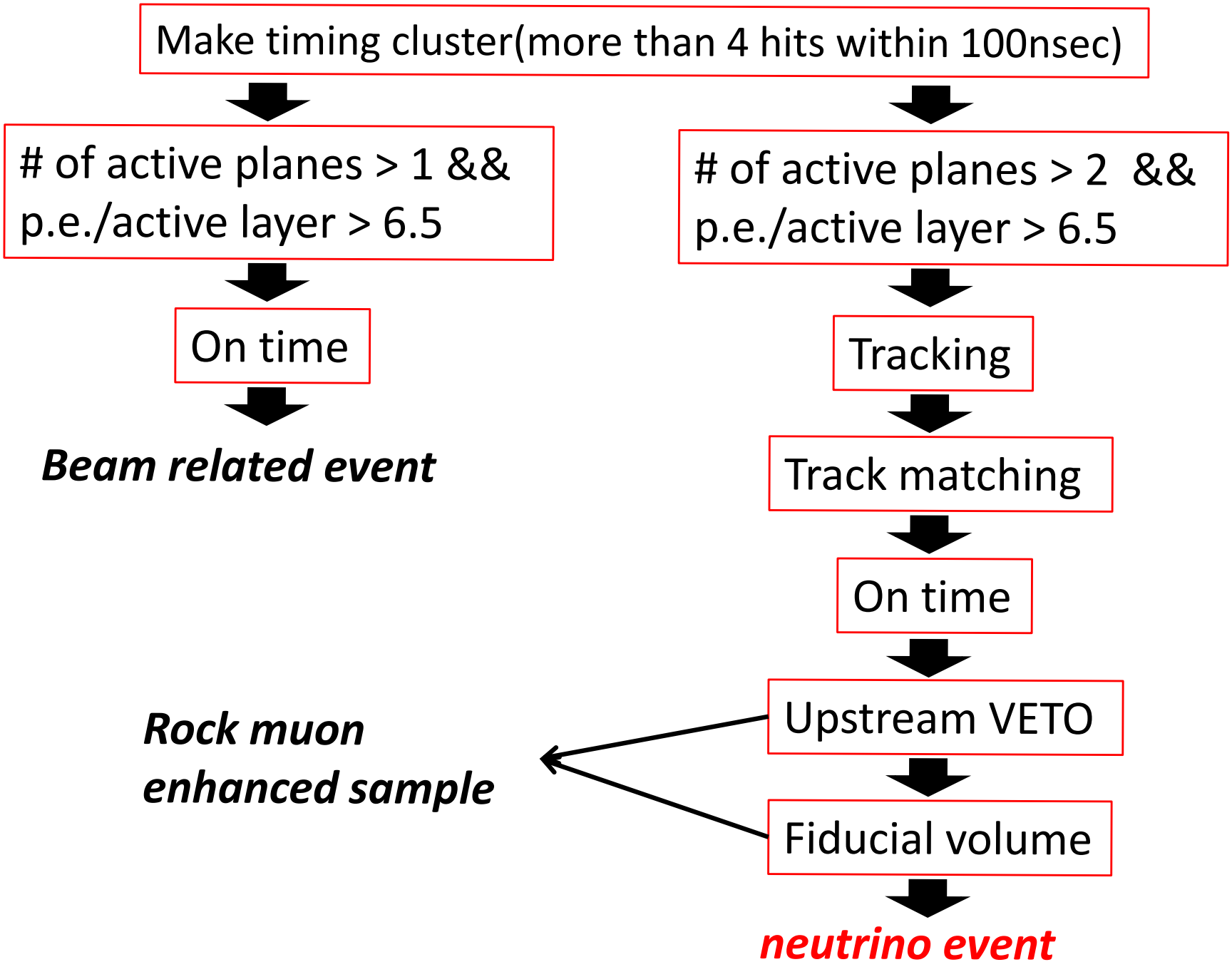
A.Murakami

2010.6.21

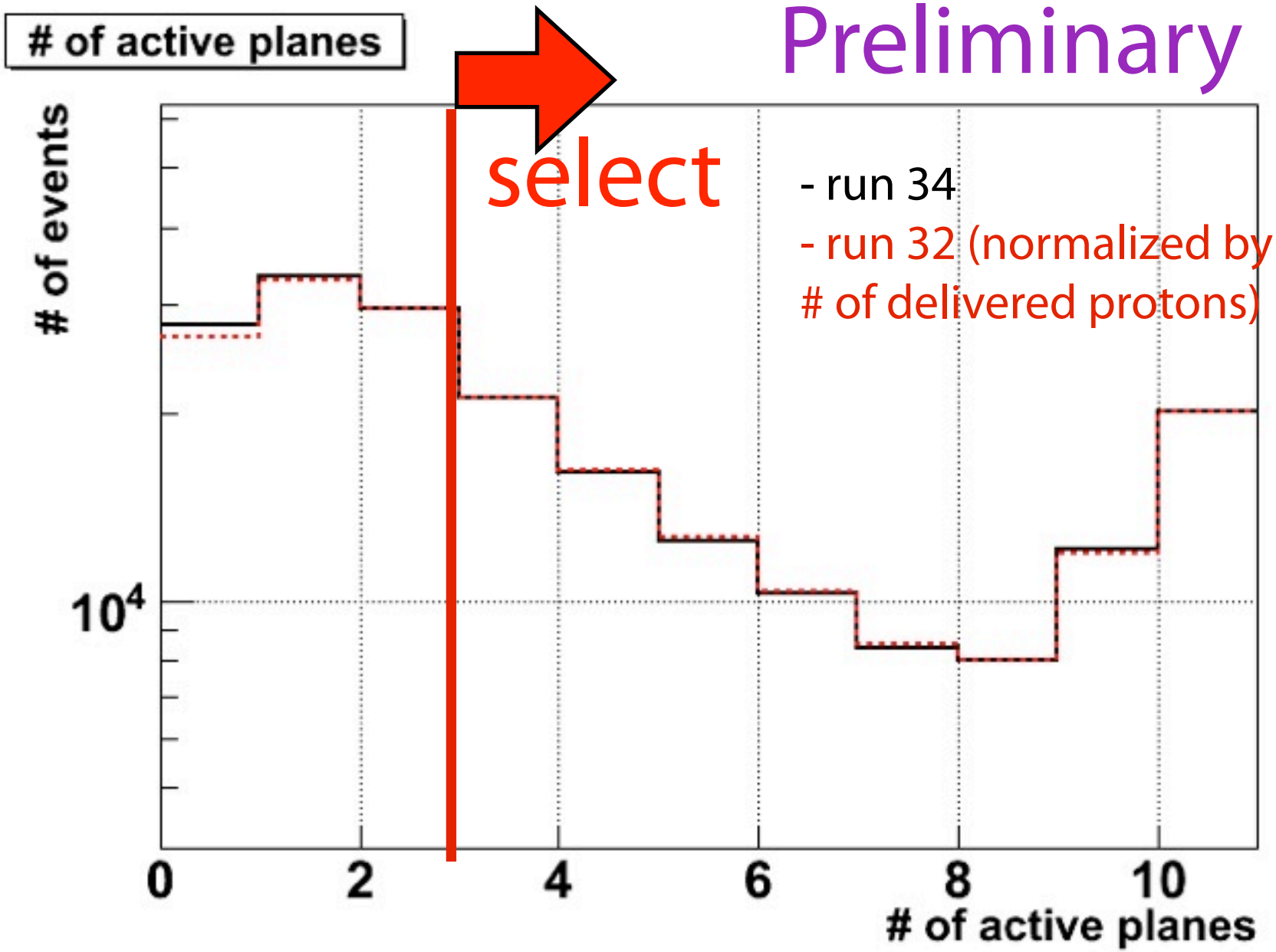
Quick analysis of Run34 data

- Analyzed the data set.
  - June.17th ~ June. 21th. data is analyzed with quick beam summary (ver p02).
- Total # of good spills ~ 5.0×10^{4}, total delivered protons ~ 1.87×10^{18}

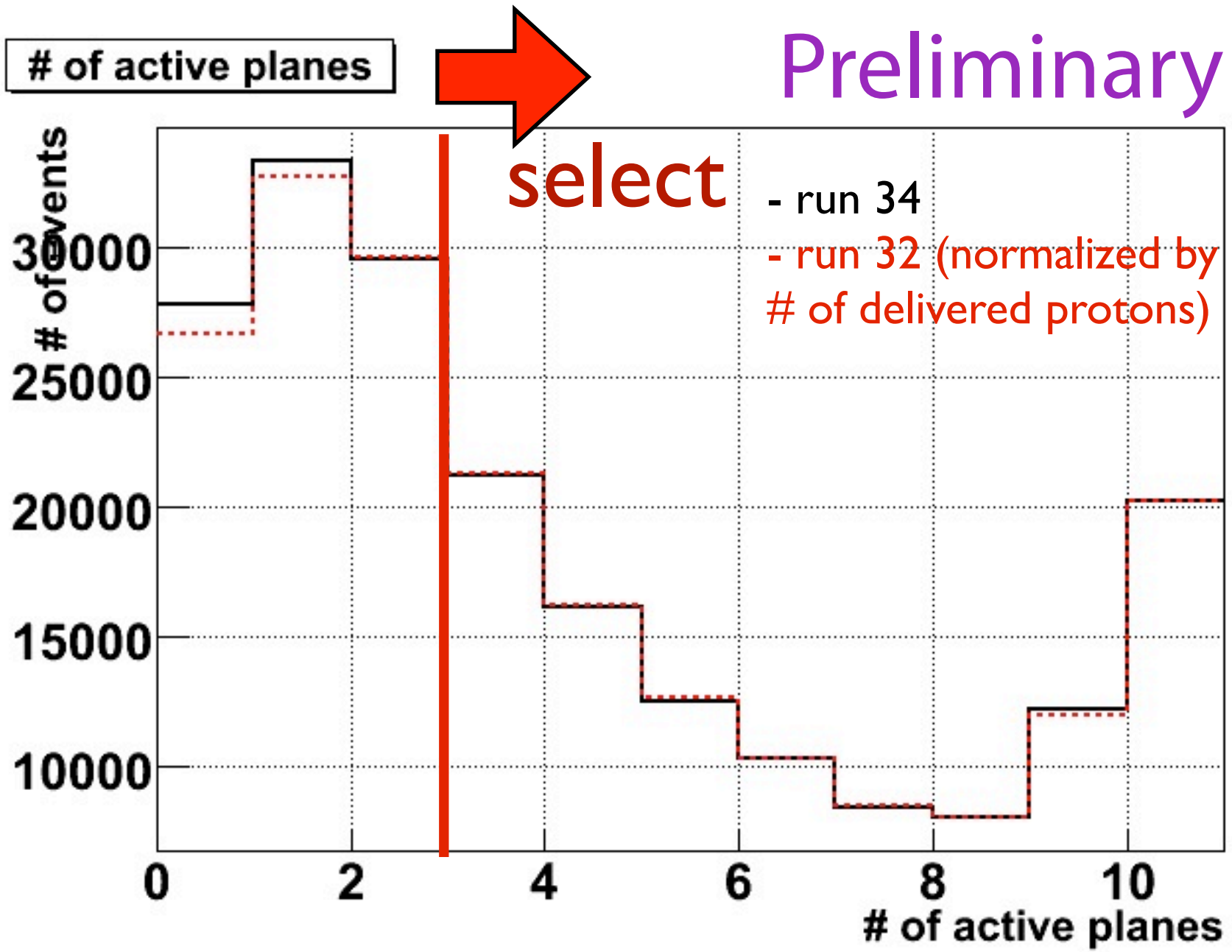
Analysis flow chart



of active plane (log)

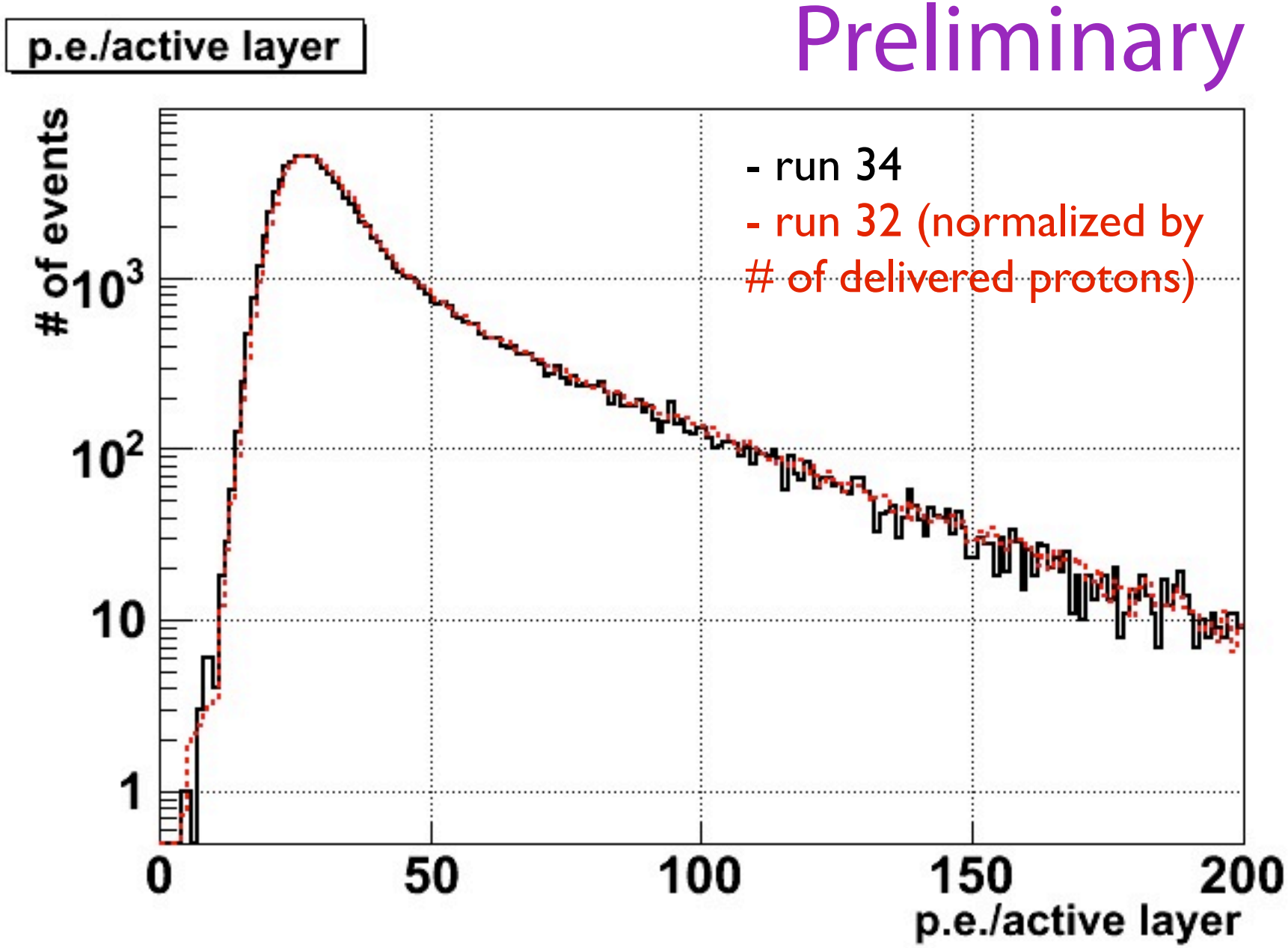


of active plane (linear)

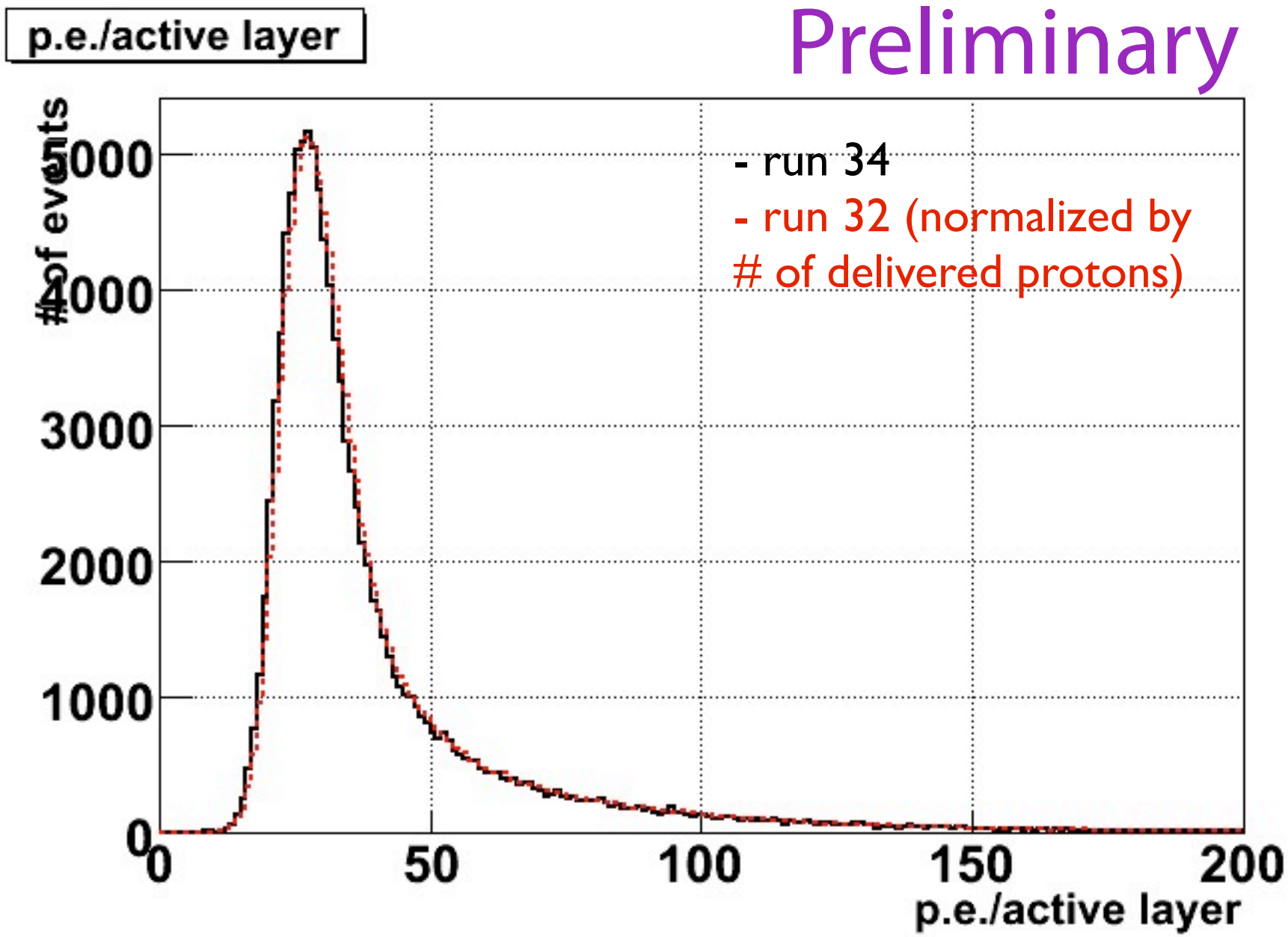


p.e. / active layer(log)

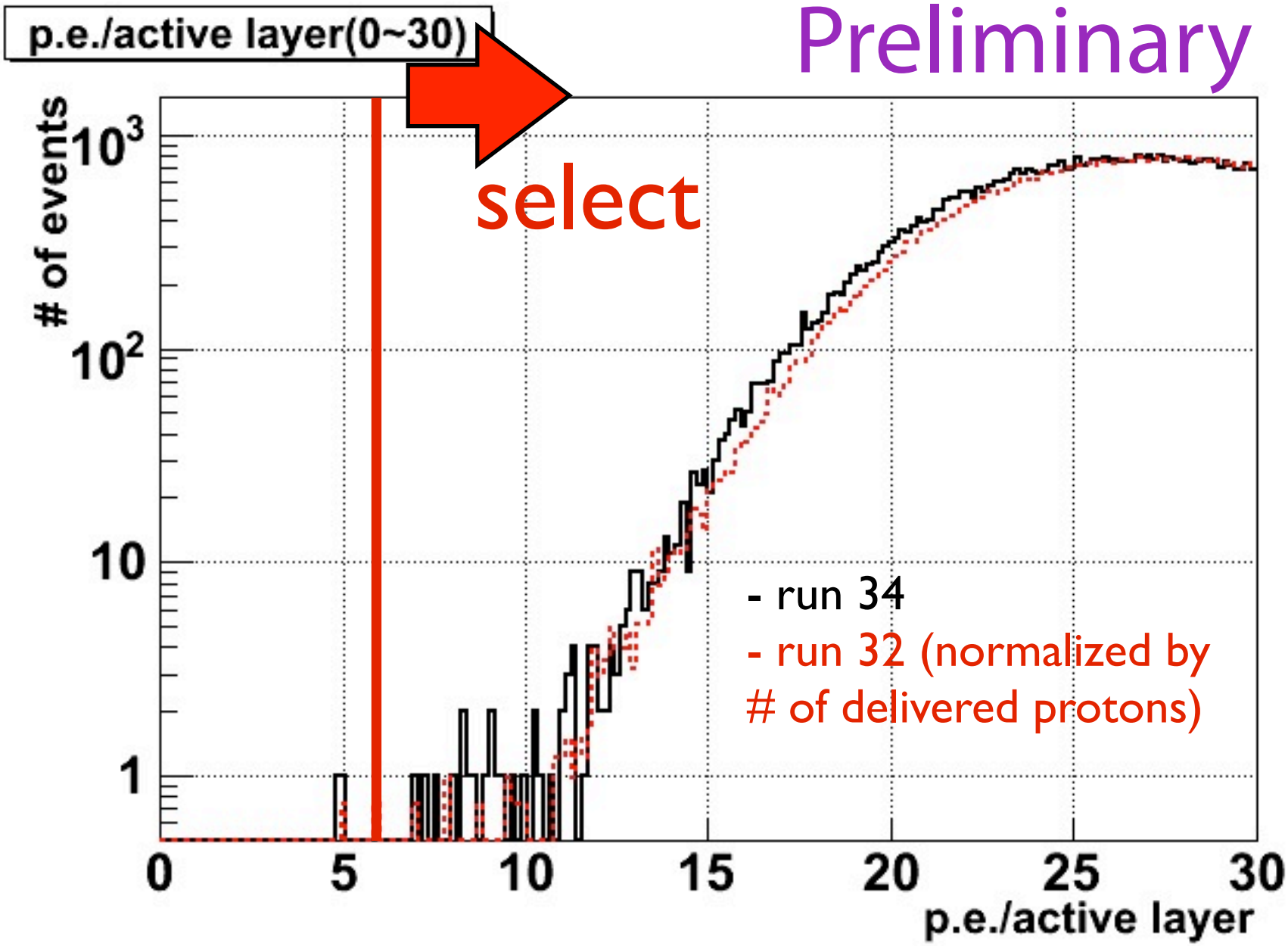
Preliminary



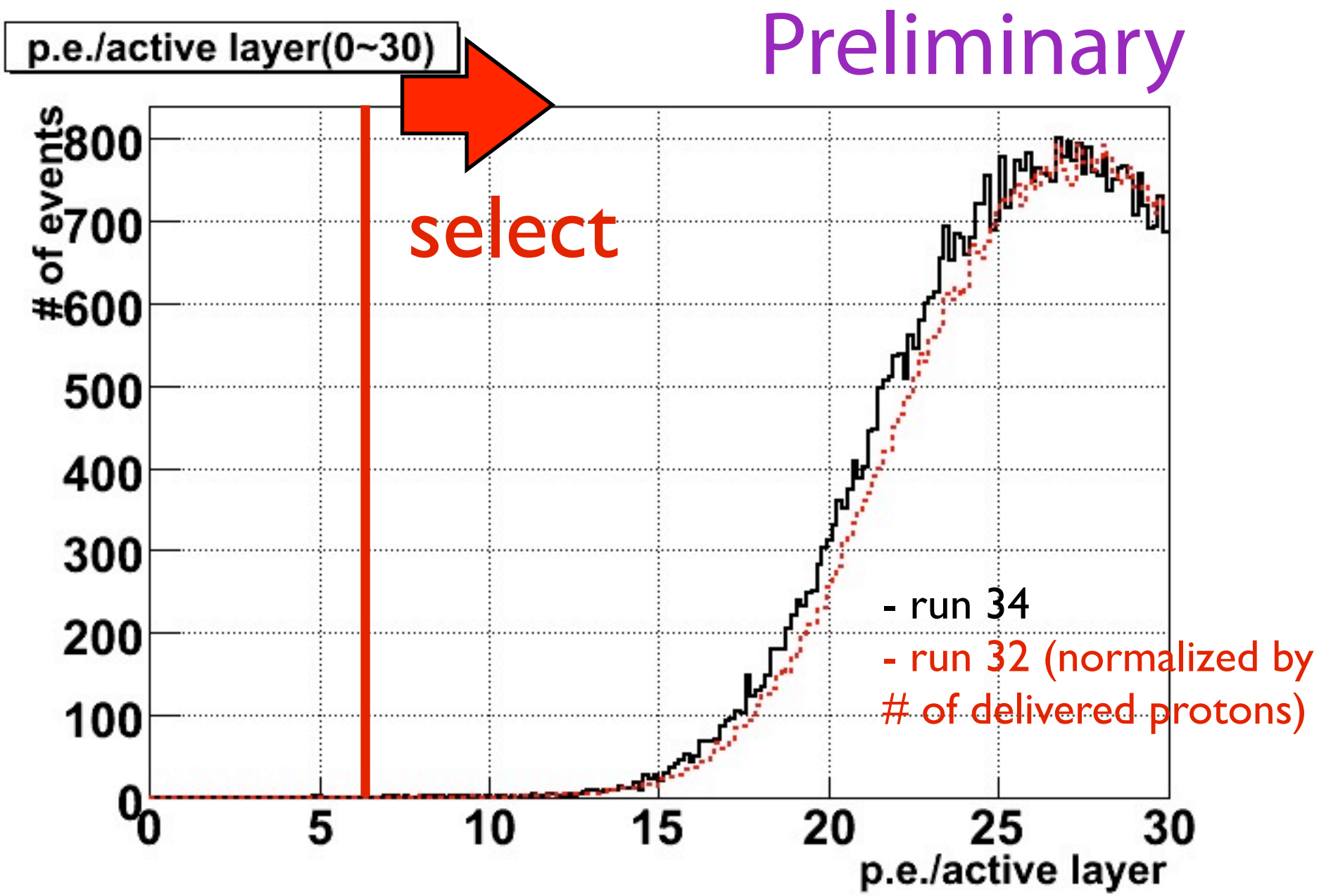
p.e. / active layer(linear)



p.e. / active layer (log, zoom)

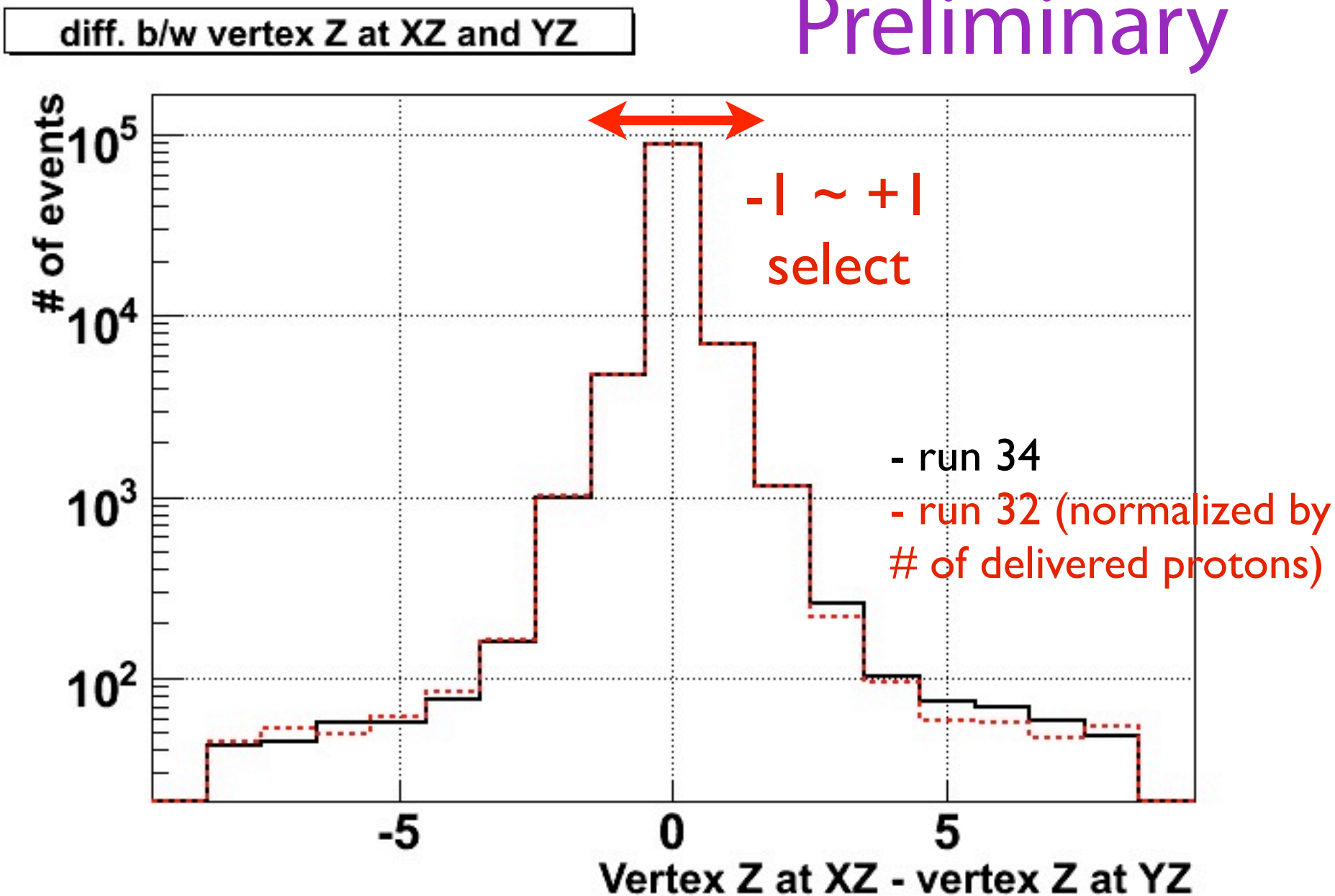


p.e. / active layer (linear,zoom)



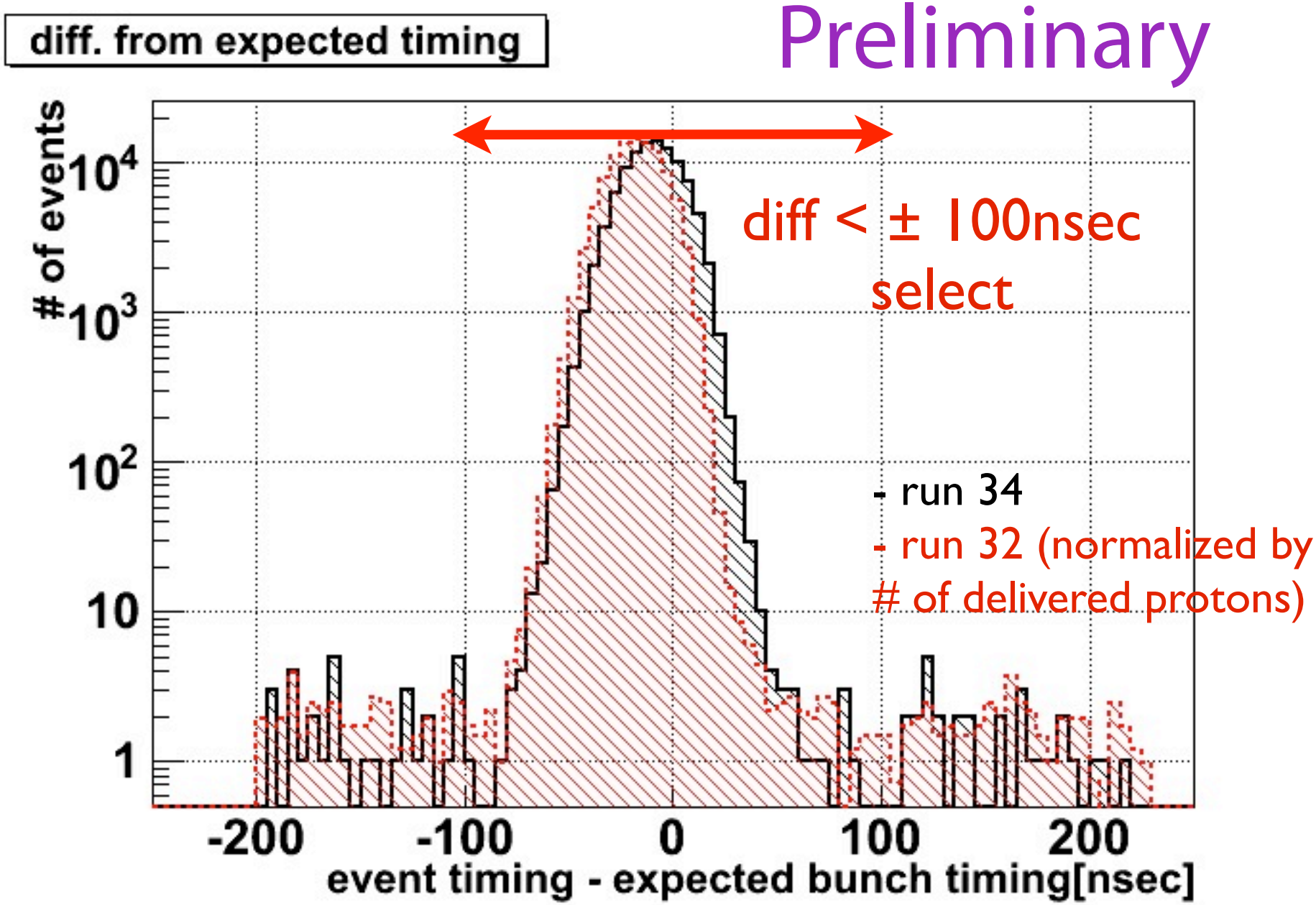
XZ and YZ Track matching

Preliminary



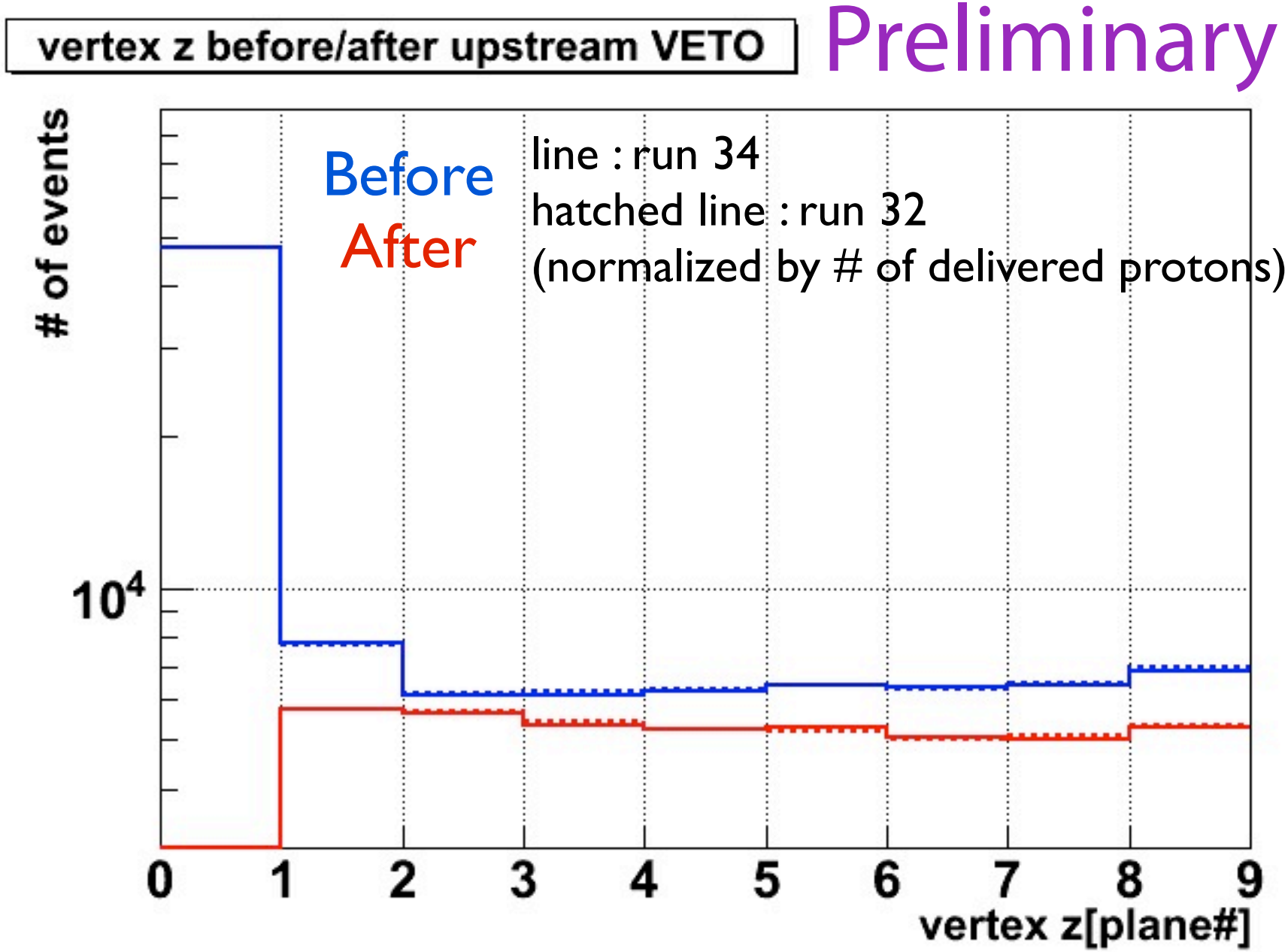
On time

Preliminary

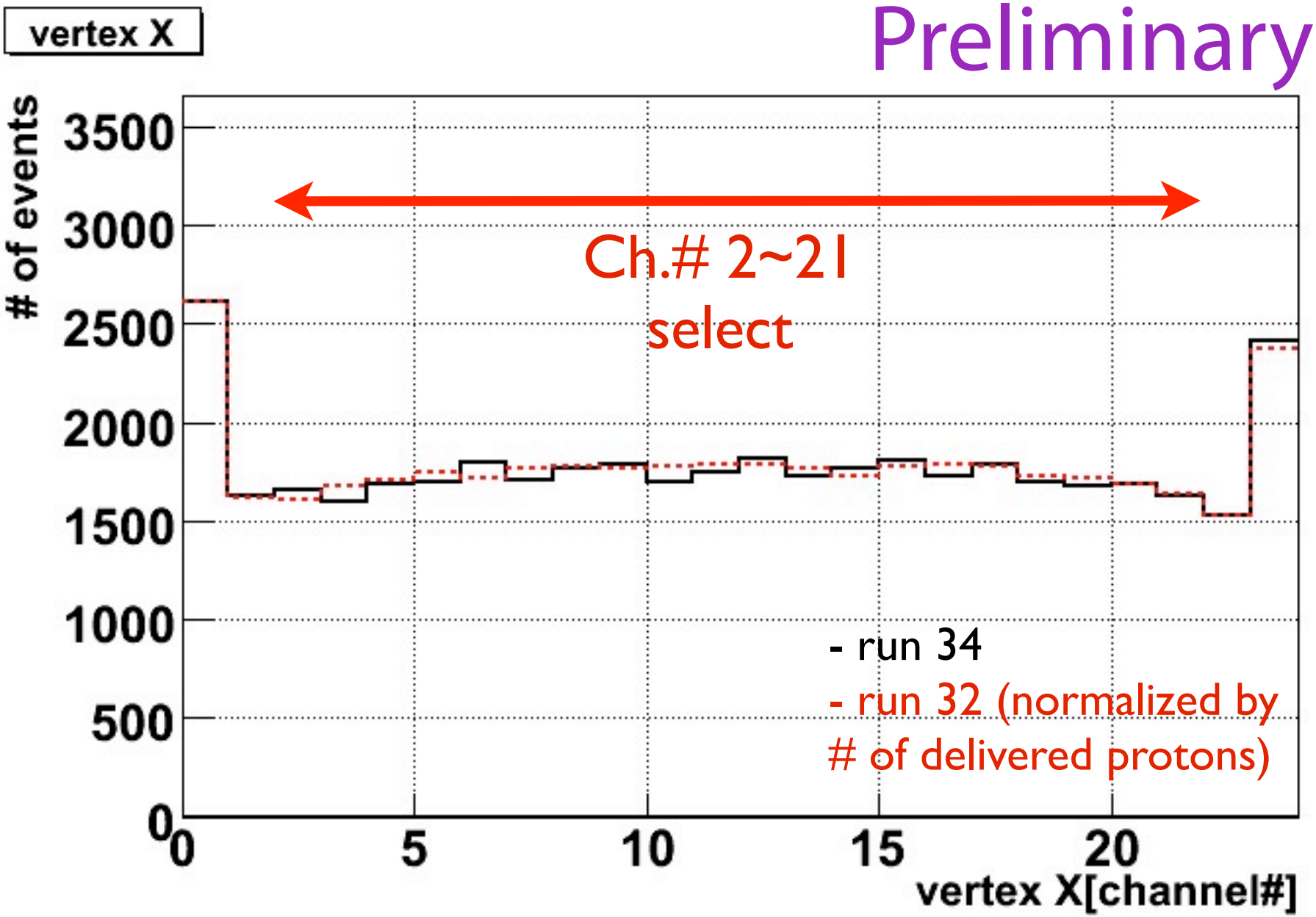


Upstream VETO

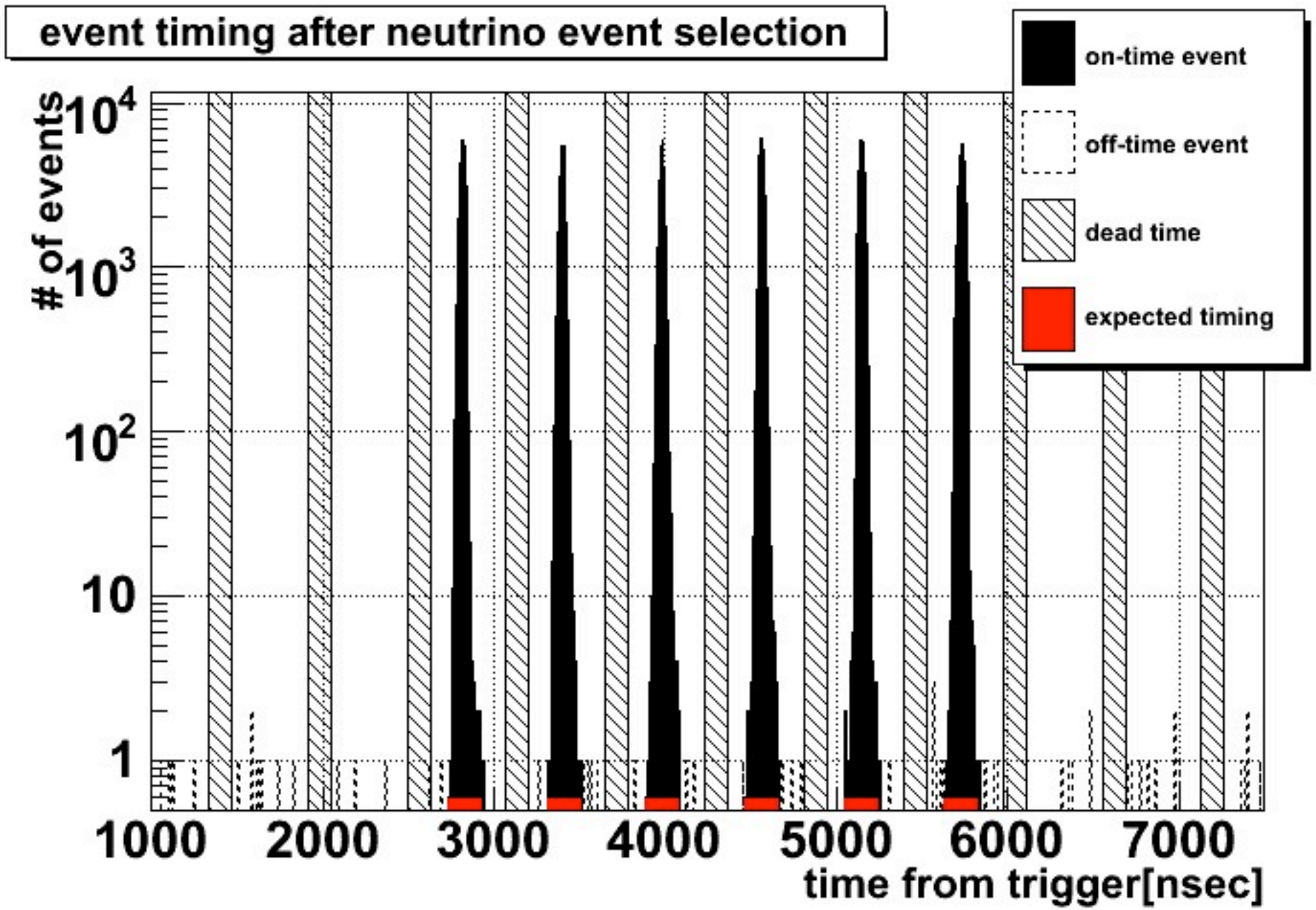
Preliminary



Fiducial volume cut



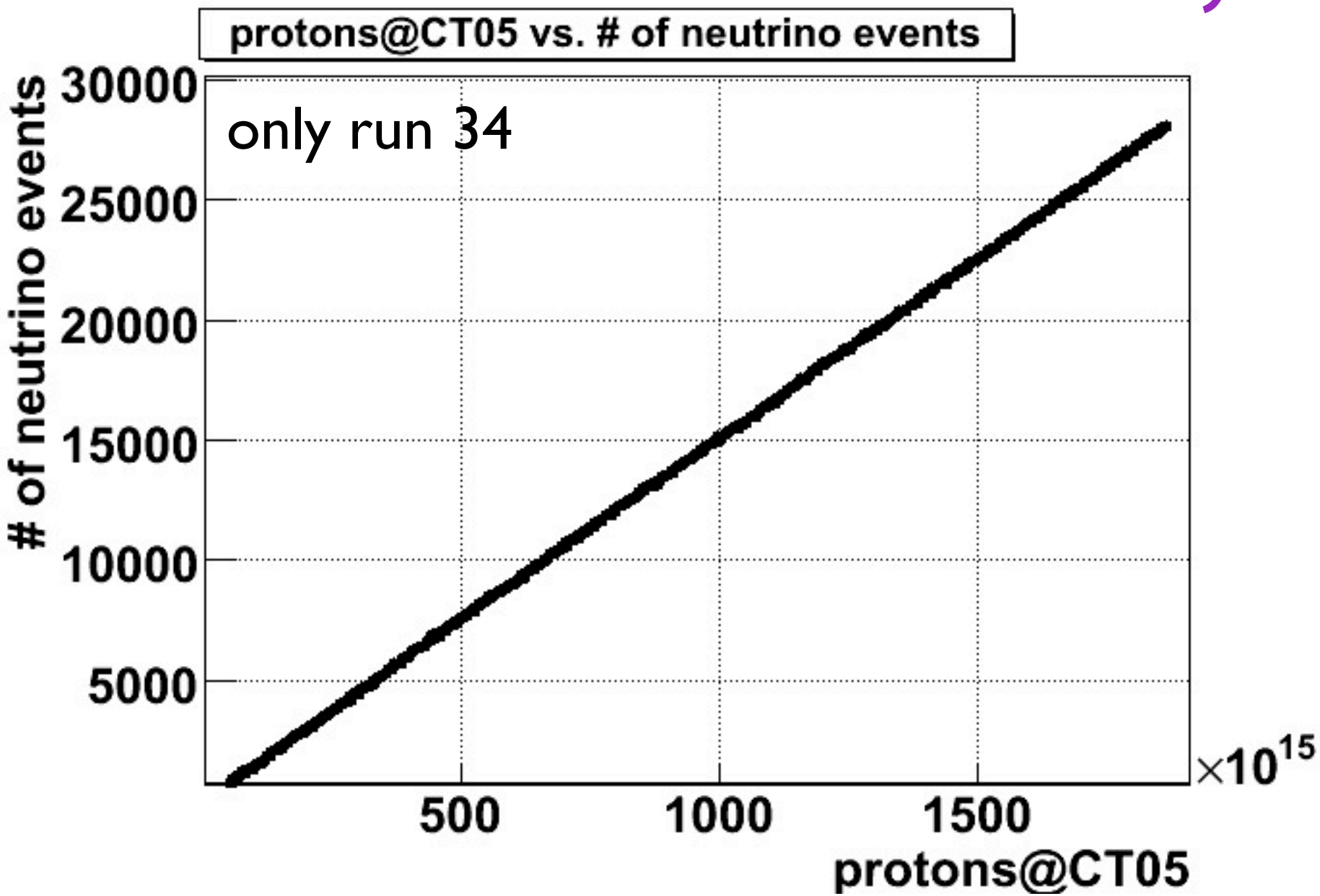
Event timing Preliminary



→you can see the six bunch structure clearly.

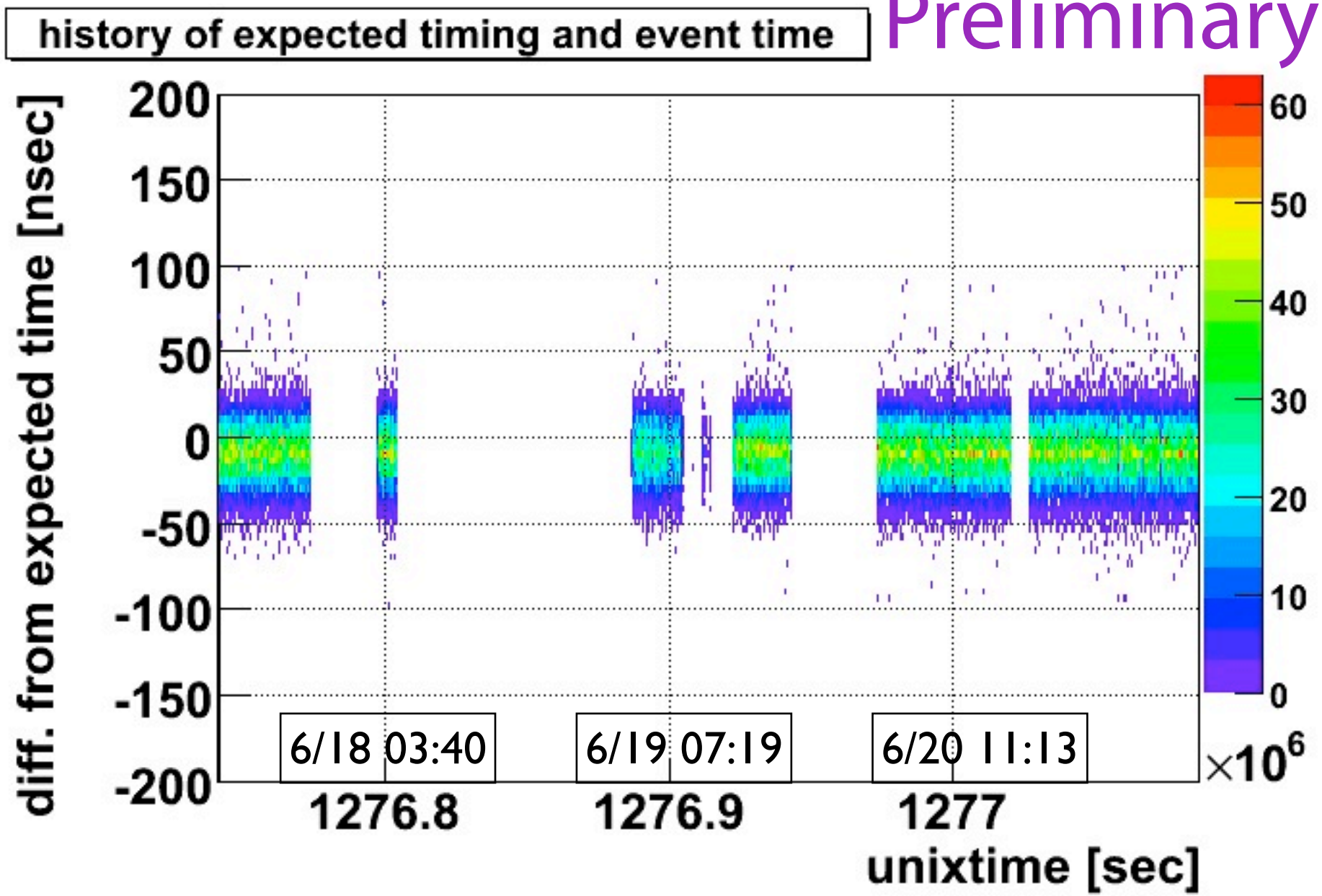
protons@CT05 vs neutrino events

Preliminary



History of diff. of observed timing from expectation.

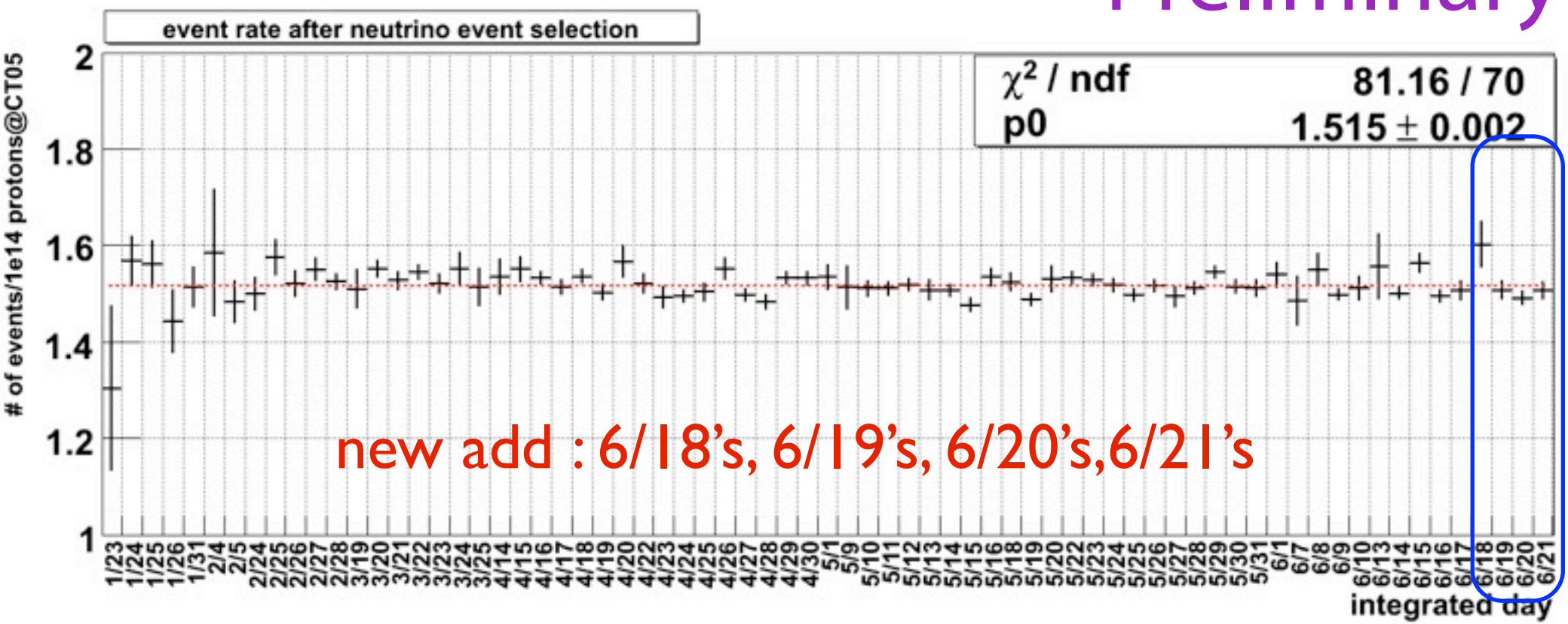
Preliminary



Neutrino event rate

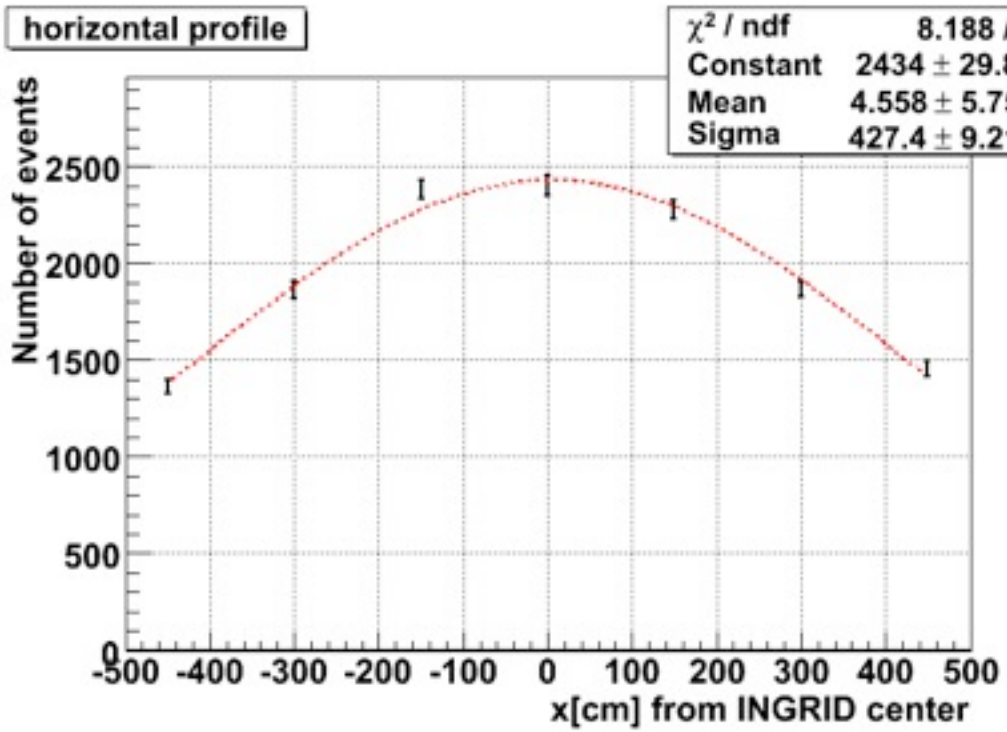
red dash line shows mean

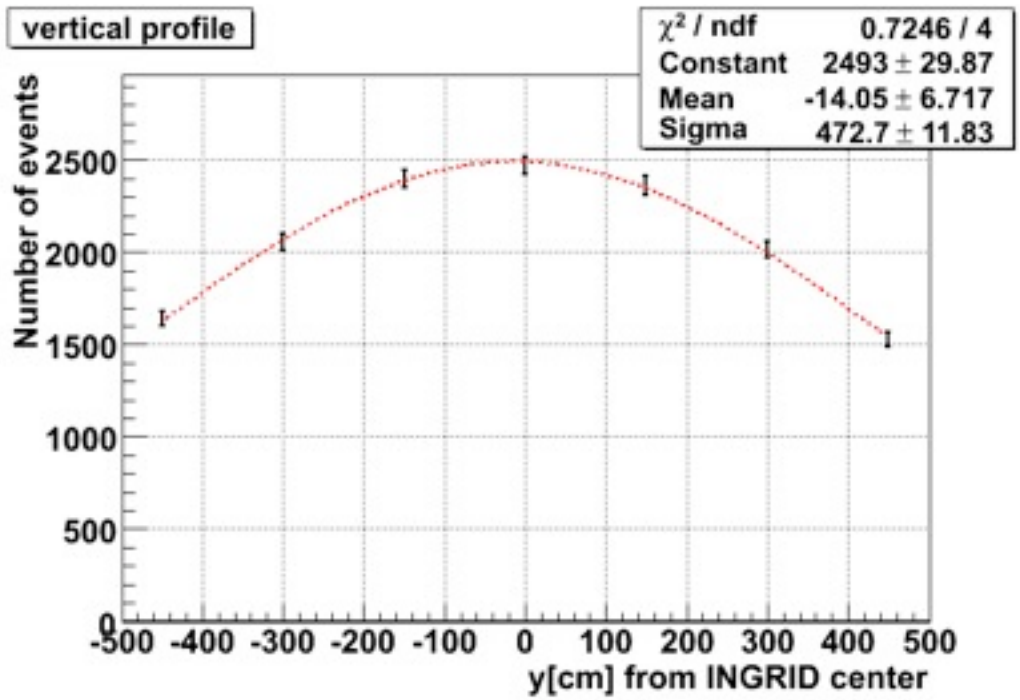
Preliminary



Event rate is as usual

Beam Profile Preliminary





center: 4.6 ± 5.8cm
(to south)
Sigma: 427 ± 9 cm

center: -14.1 ± 6.7cm
(on axis = -1.9cm)
Sigma: 473 ± 12 cm

(1 mrad beam shift at INGRID = 28 cm)