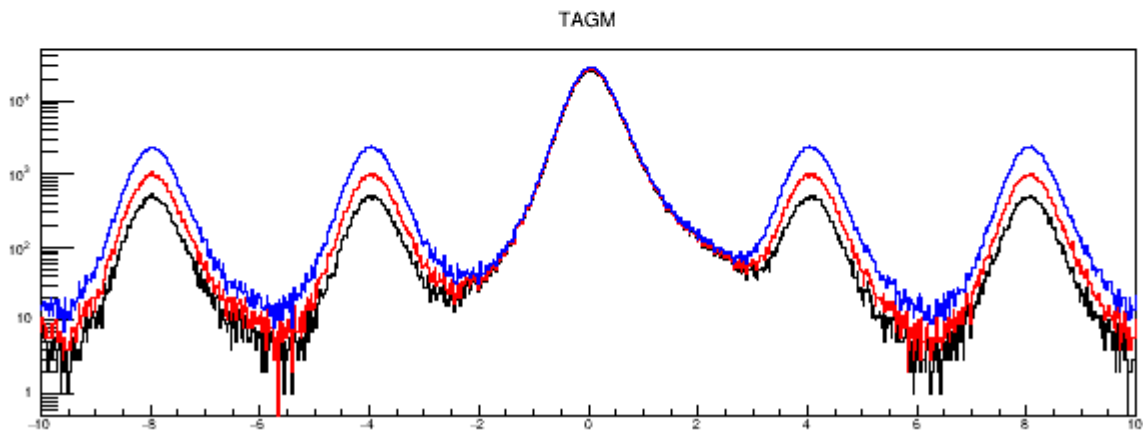
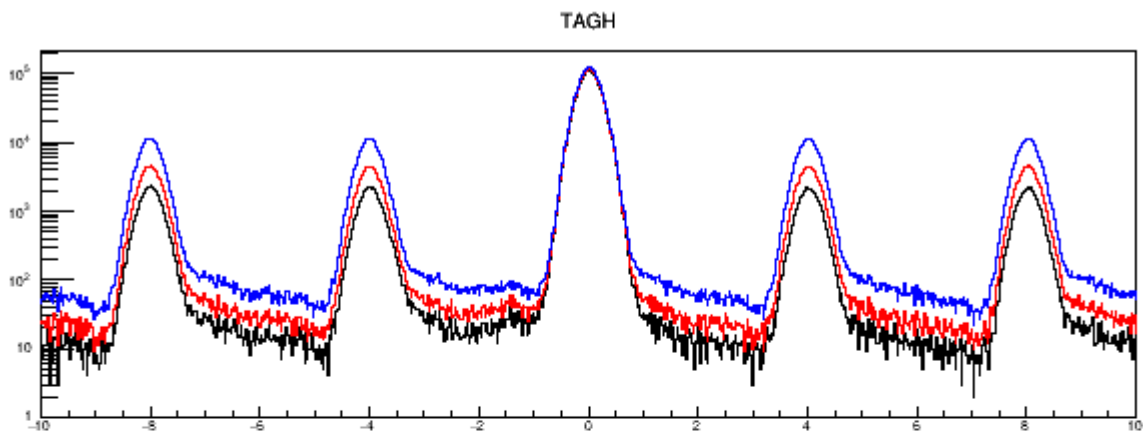


Bunch structure, PS trigger  
- PS TDC time calibrated for all runs (need to check)

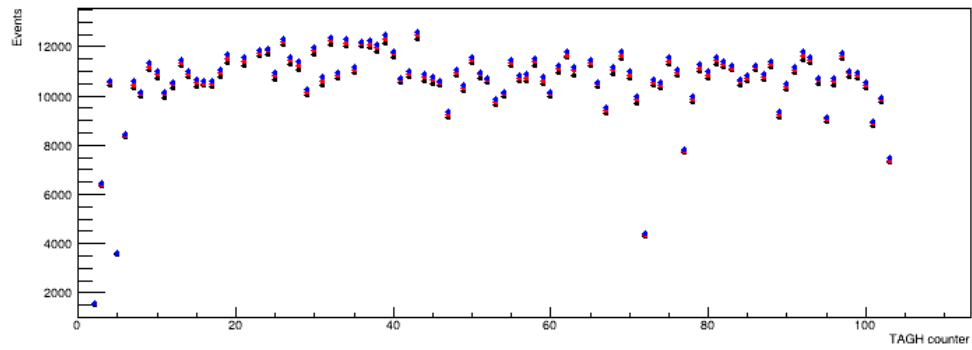
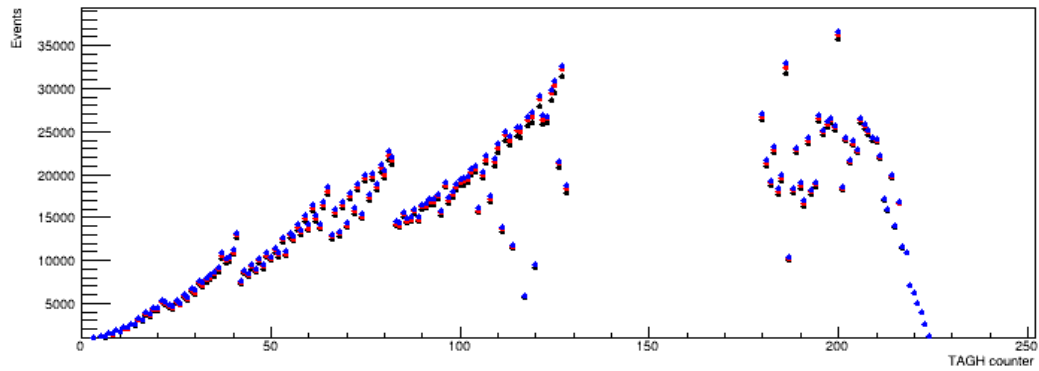
Run 61334 (Be)



200 MeV search window  
400 MeV  
1 GeV

PS Tagged flux

Run 61334 (Be)



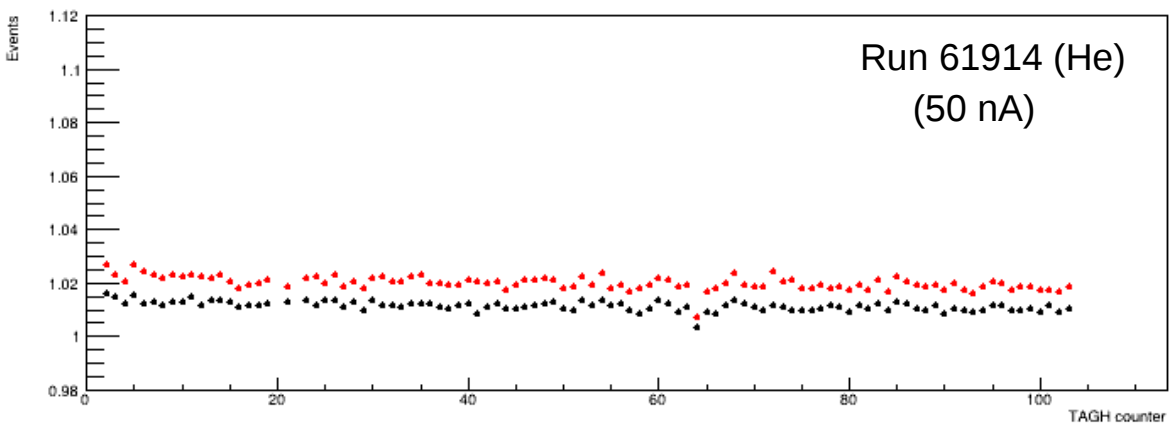
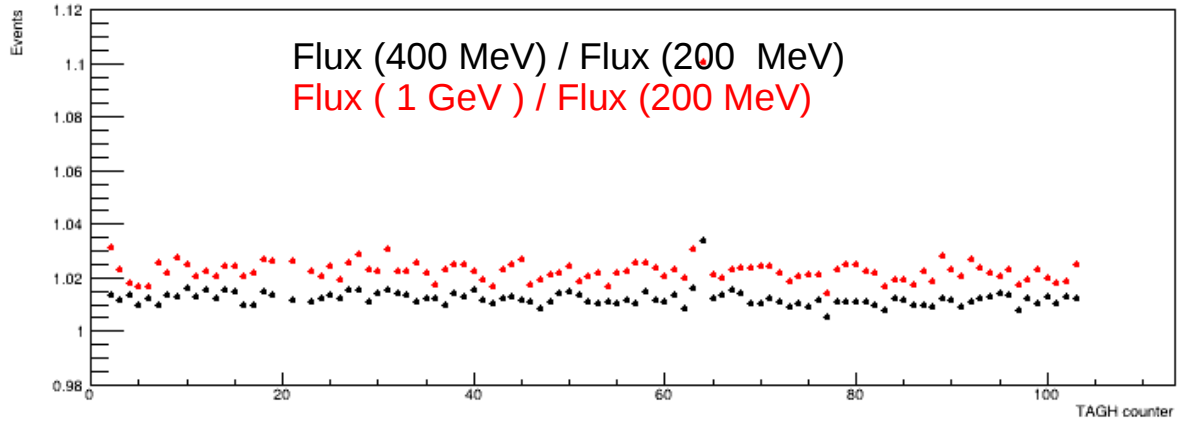
200 MeV search window

400 MeV

1 GeV

# Tagged flux ratio (TAGM)

Run 61334 (Be)  
(200 nA)

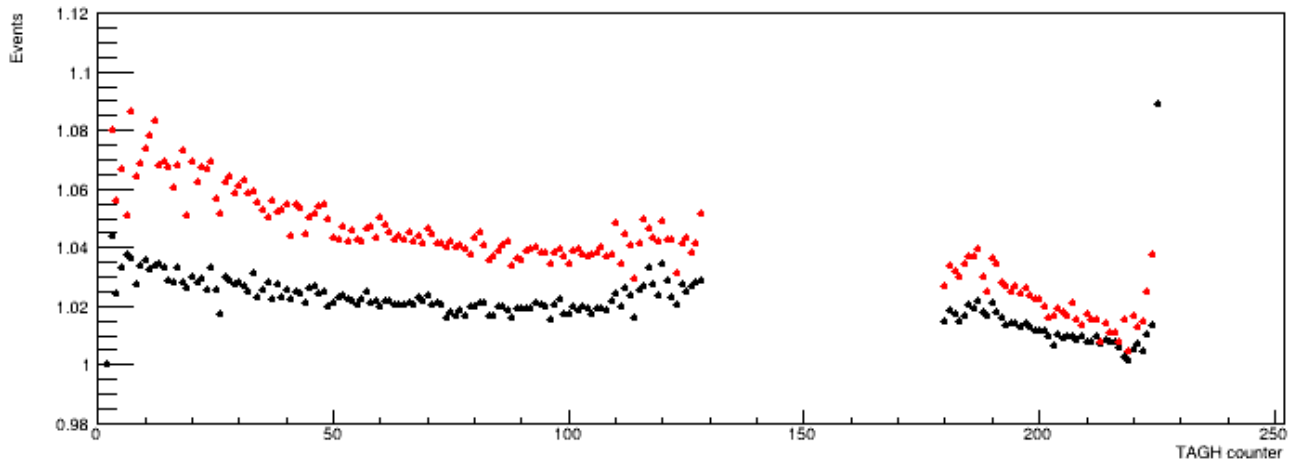


The yield slightly increases with the increase of the hit search window in the tagger

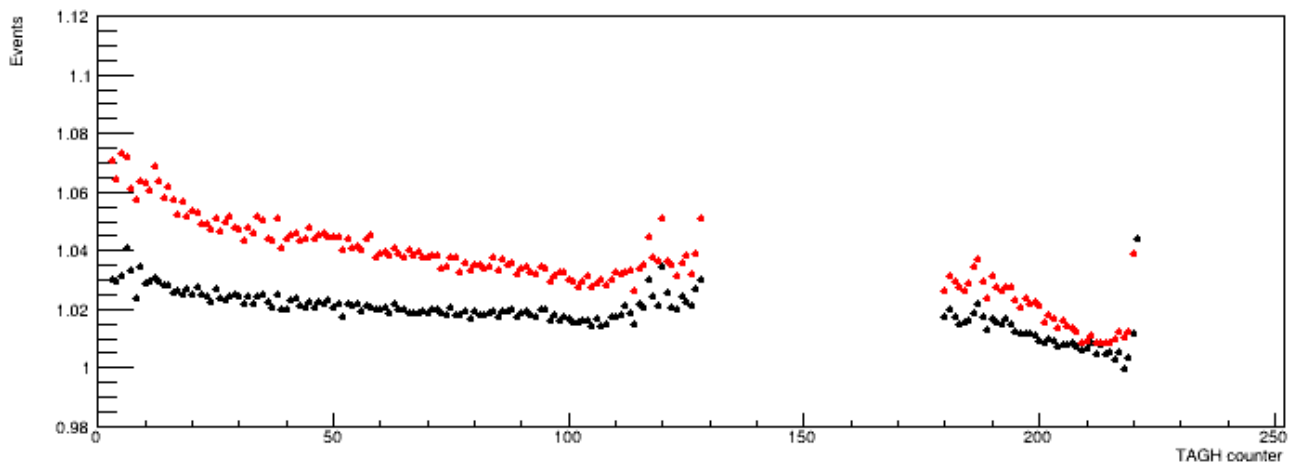
# Tagged flux ratio (TAGH)

Flux (400 MeV) / Flux (200 MeV)  
Flux ( 1 GeV ) / Flux (200 MeV)

Run 61334 (Be)  
(200 nA)



Run 61334 (He)  
(50 nA)

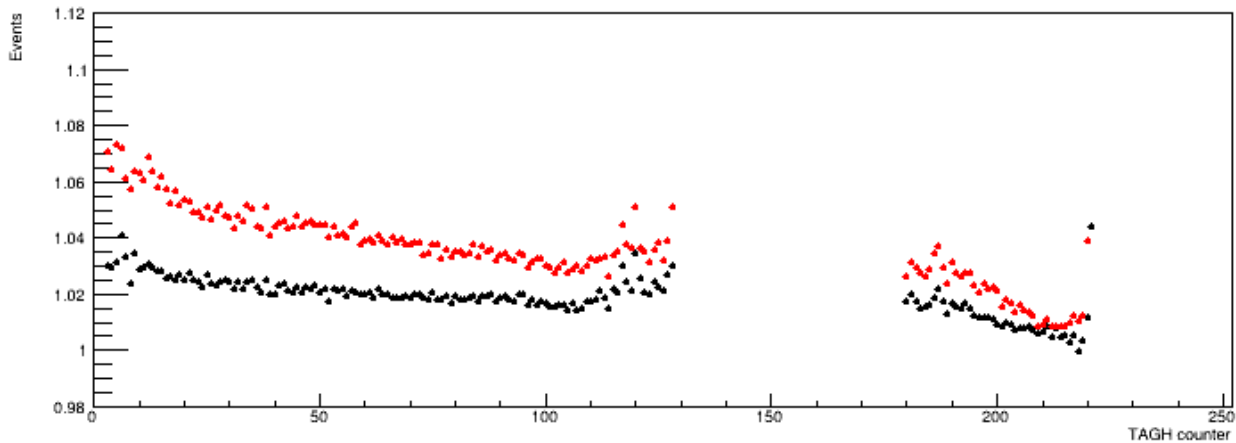
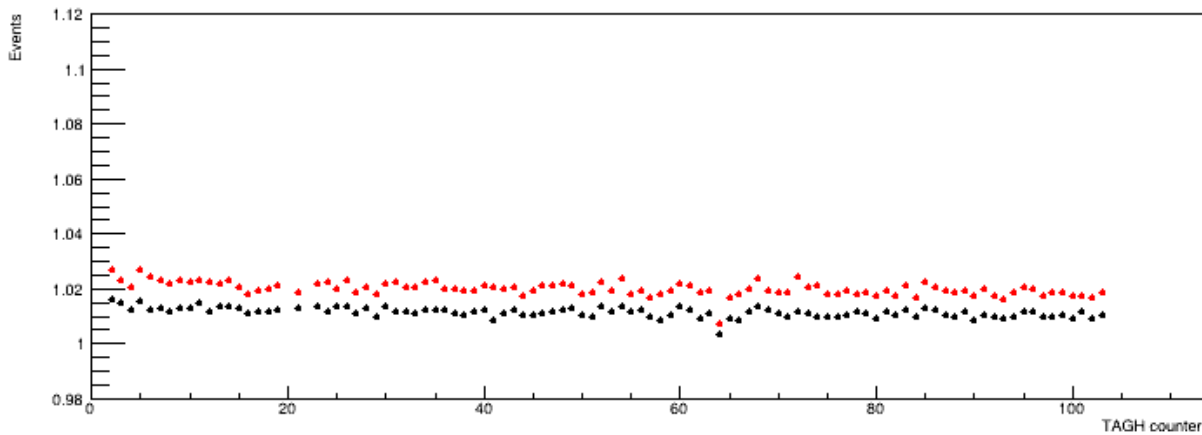


Larger effect related to the search window size

## Tagged flux ratio (TAGH vs TAGM)

Flux (400 MeV) / Flux (200 MeV)  
Flux ( 1 GeV ) / Flux (200 MeV)

Run 61914 (He)  
(50 nA)



Possible origin: beam related bg, scattering on vacuum chamber exit window, accelerator duty factor, bg in the PS

Should not effect lumi much:

- narrow search window
- acceptance determined for the particular search window size