

# Progress Report Guillermo

Feb 29, 2012



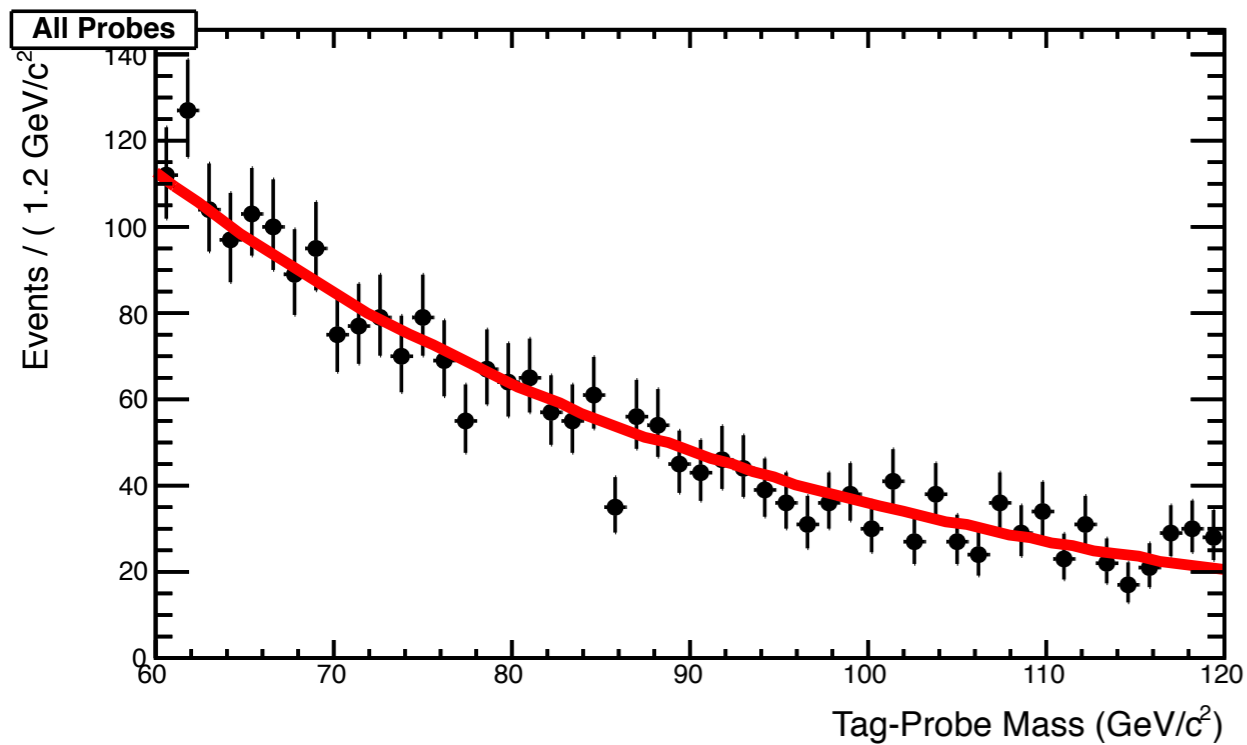
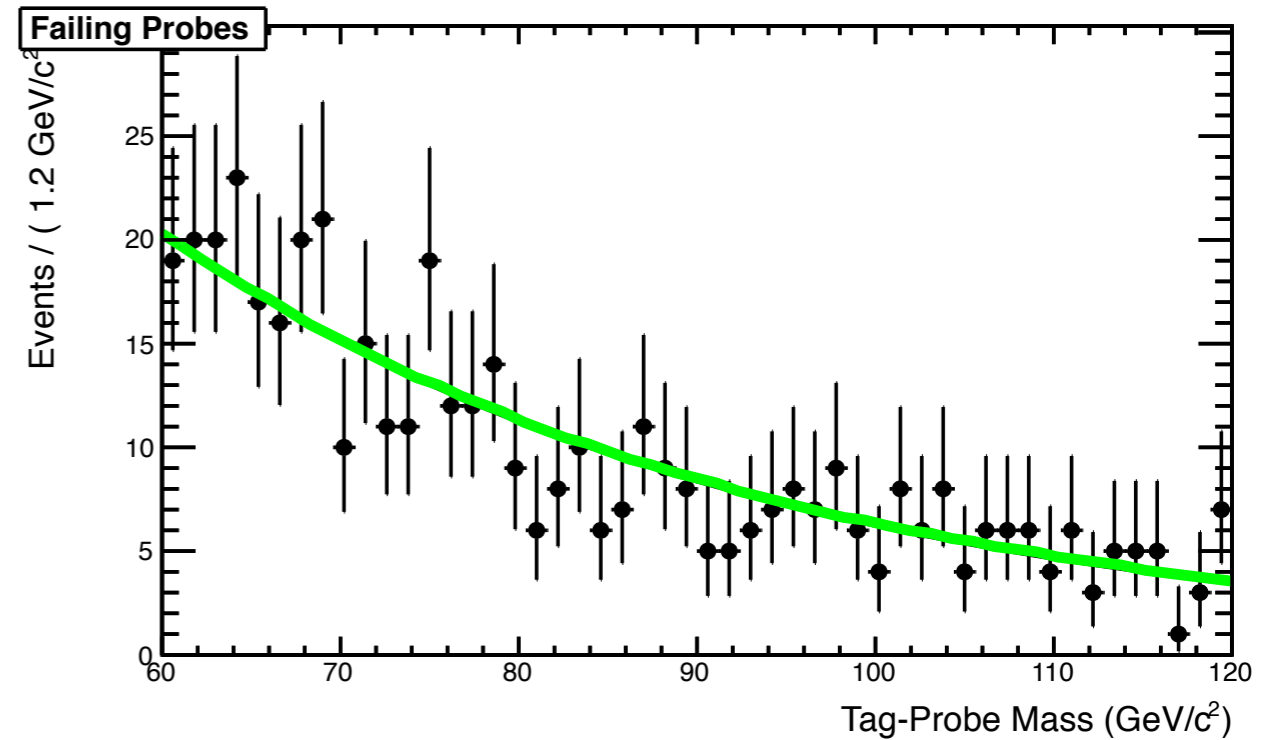
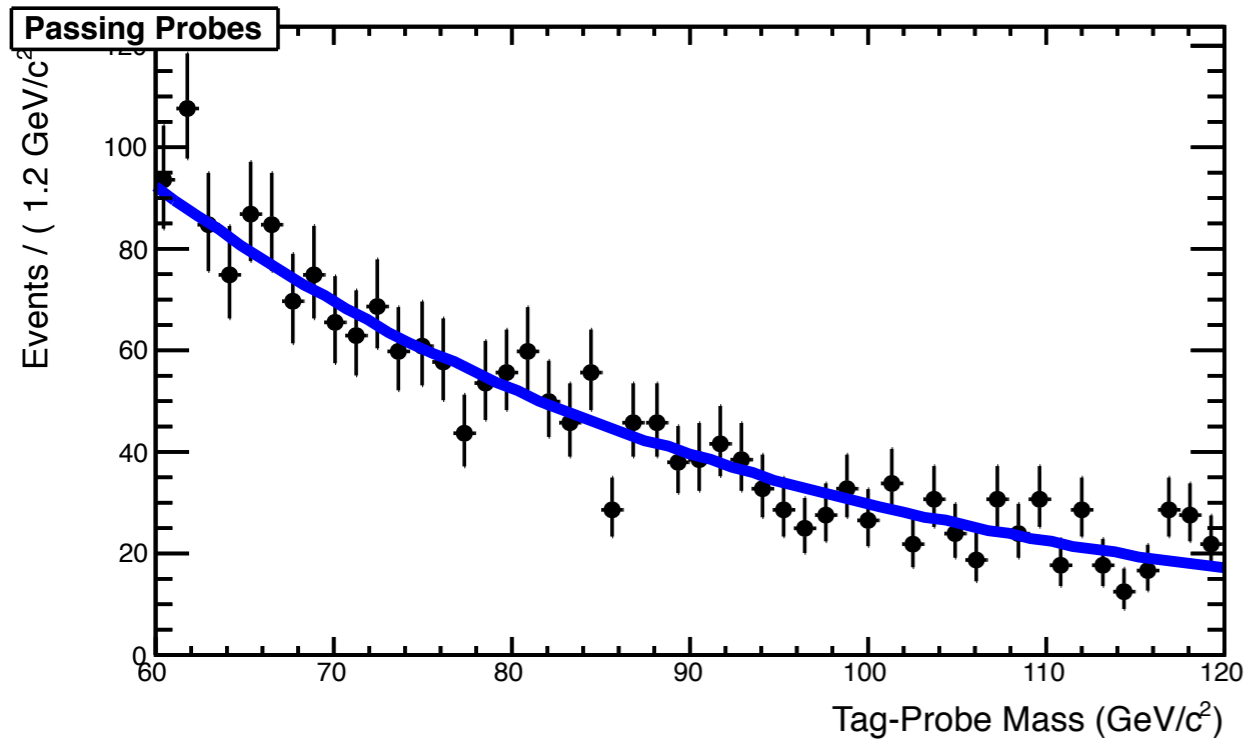
# Some News

- Pre-approval this Friday March 3rd
- Running TnP
- Double Checking Z-TnP
- Double ratio frequentist limits pending

# Z TnP

- I tried TnP for tracking and Triggering to see if it was working and got the following results.
- Tracking efficiency will be a challenge.
- Triggering efficiency (peaks are showing).
- Recommendations. Make 1 bin pt and 1 bin eta only.

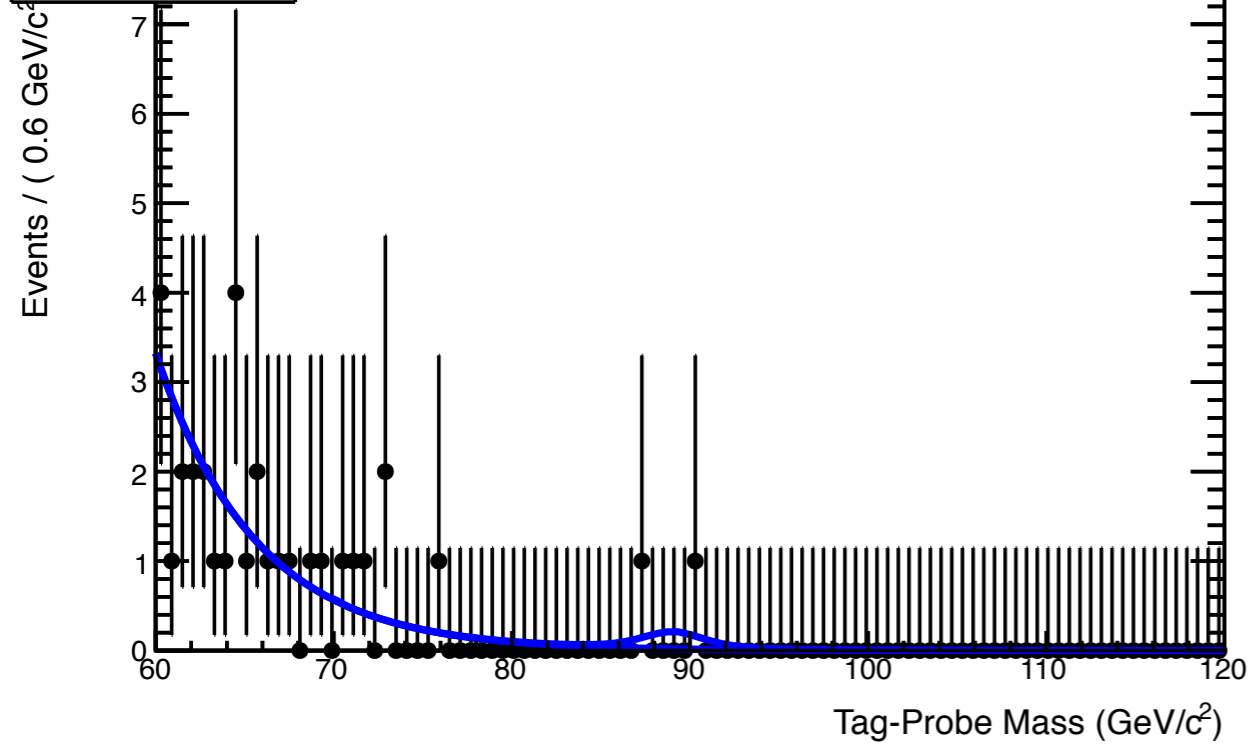
# Tracking Efficiency for the whole Z skim



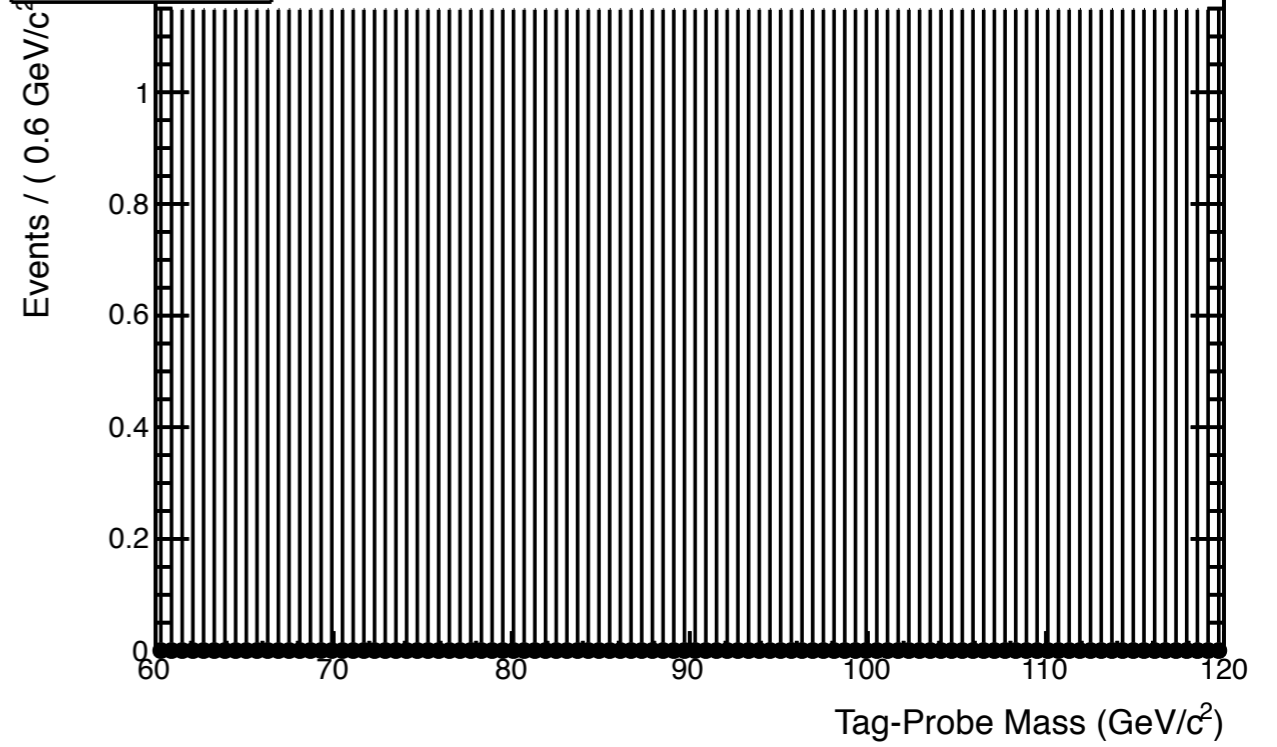
efficiency =  $0.9 \pm 1.0$   
 $l_f = -0.02956 \pm 0.0008$   
 $l_p = -0.02846 \pm 0.0004$   
 mean =  $85 \pm 9$   
 numBackgroundFail =  $474 \pm 6$   
 numBackgroundPass =  $2216 \pm 13$   
 numSignalAll =  $0 \pm 783$   
 sigma =  $4 \pm 2$

# Triggering Efficiencies Invariant Mass

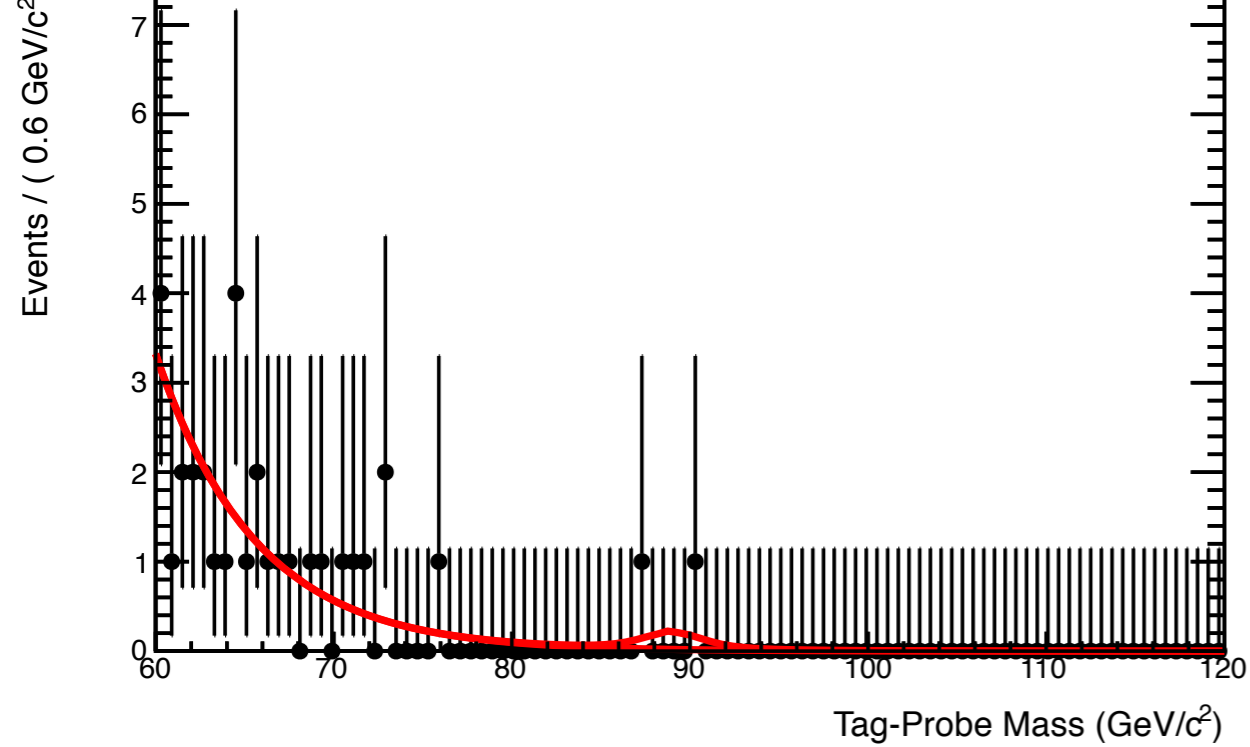
Passing Probes



Failing Probes



All Probes



efficiency =  $1.0 \pm 0.6$   
lf =  $0 \pm 2$   
lp =  $-0.177 \pm 0.03$   
mean =  $89 \pm 2$   
numBackgroundPass =  $31 \pm 6$   
numSignalAll =  $2 \pm 1$   
sigma =  $1 \pm 3$