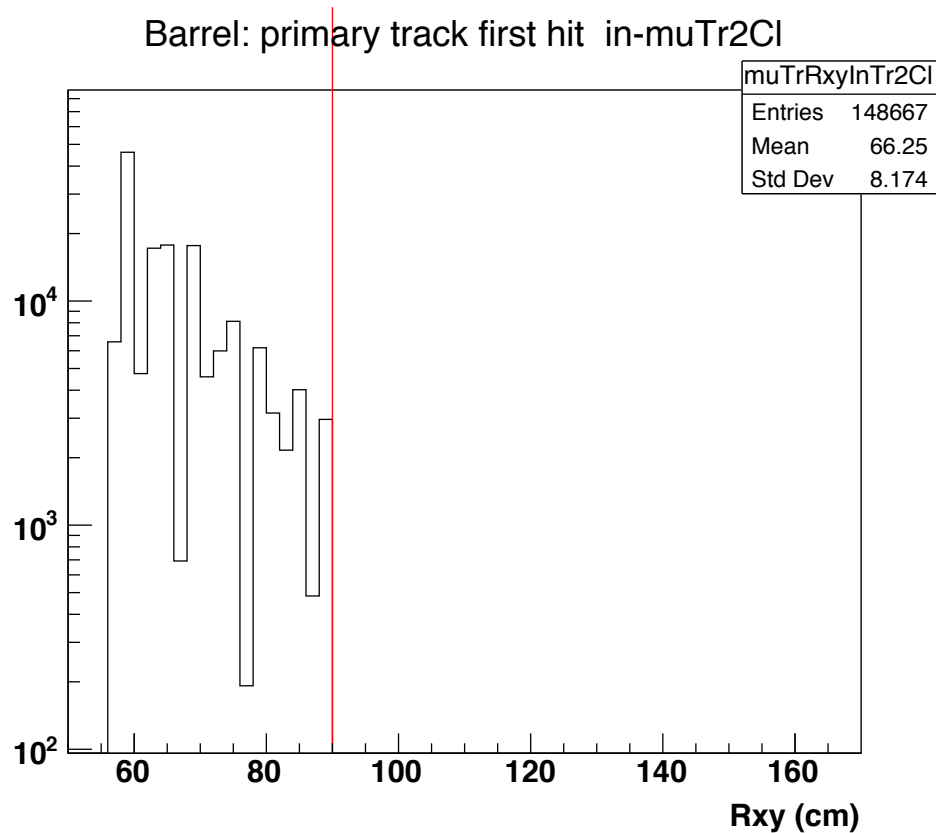# BUR study with st_W

Jae D. Nam

Temple Univ.
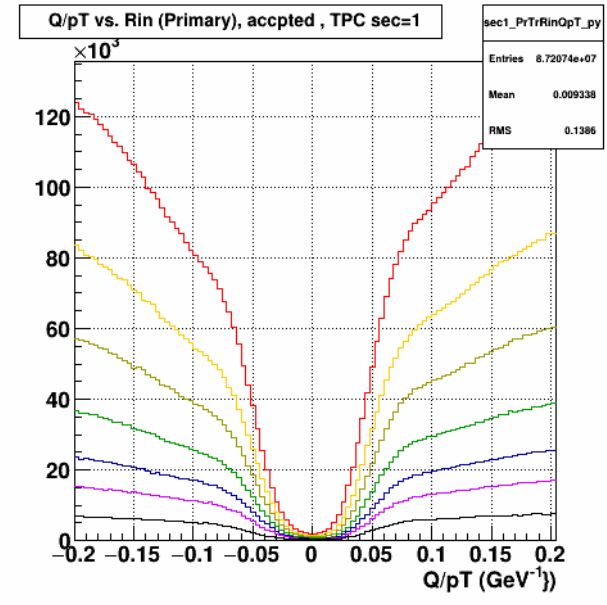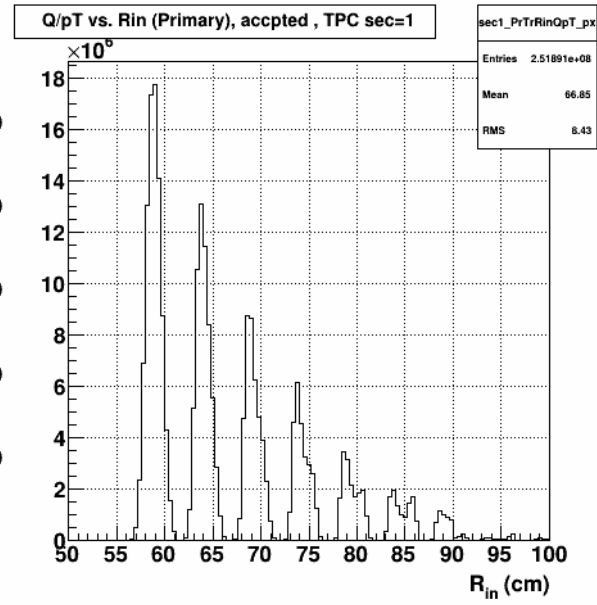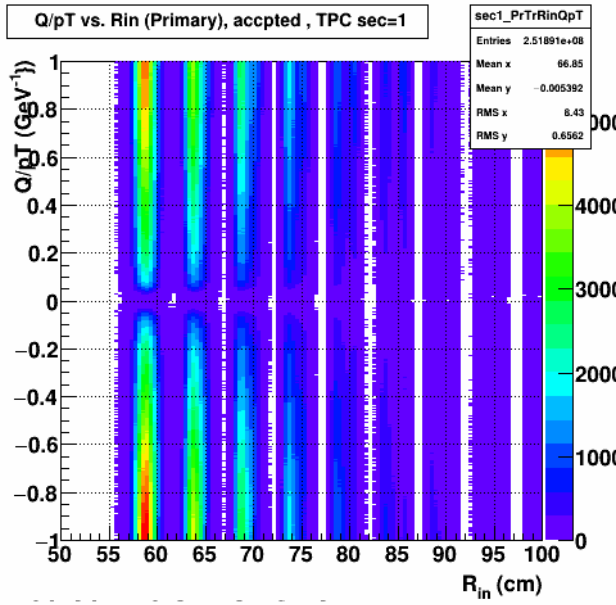
Review
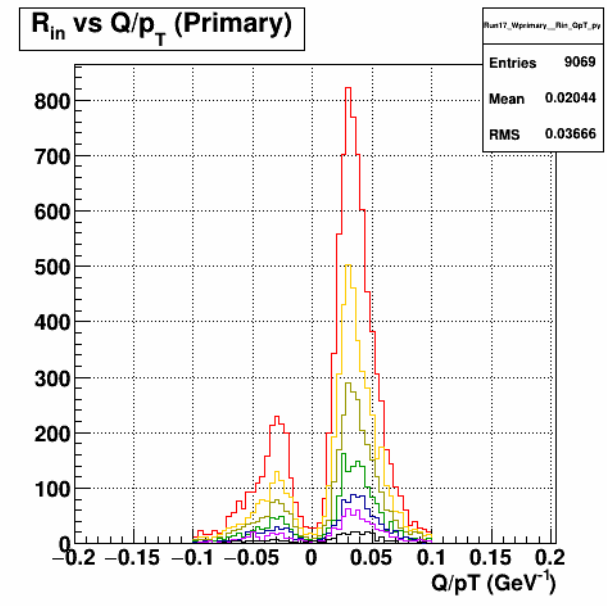

Barrel: primary track first hit in-muTr2Cl

muTrRxyInTr2Cl	
Entries	148667
Mean	66.25
Std Dev	8.174

Rxy (cm)

- R_{xy} (R_{in}) distribution
  - Taken with tracks that pass TPC-level cuts.
    - $N_{hitfit} > 15$
    - $N_{hitfit}/N_{poss} > 0.51$
    - $R_{in} < 90 \ cm$
    - $R_{out} > 160 \ cm$
    - Preselection cuts ($p_T > 1 \ ...$)
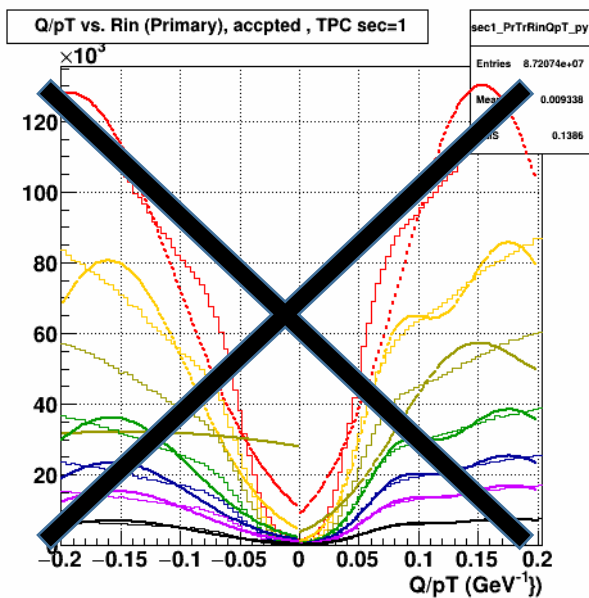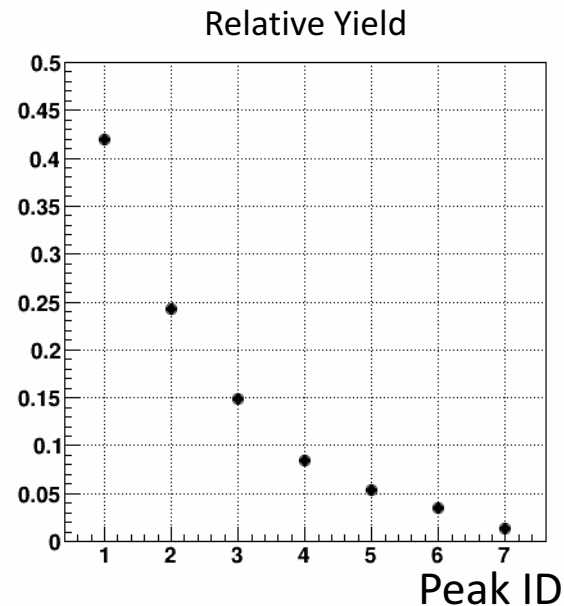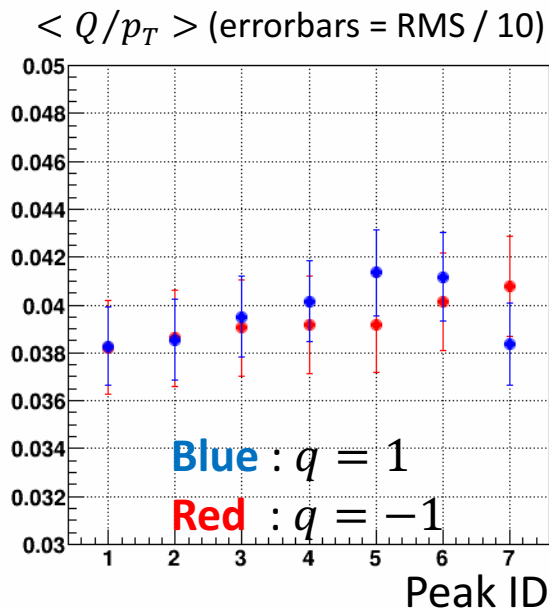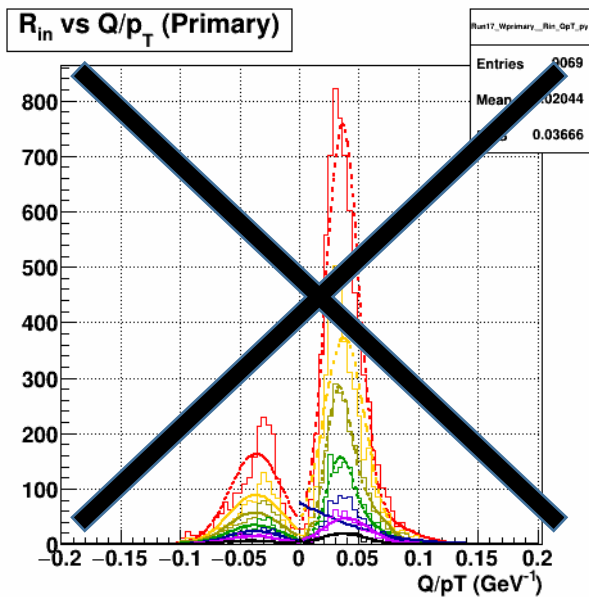
- Present study includes 2 sets of distribution.
  - e^W tracks
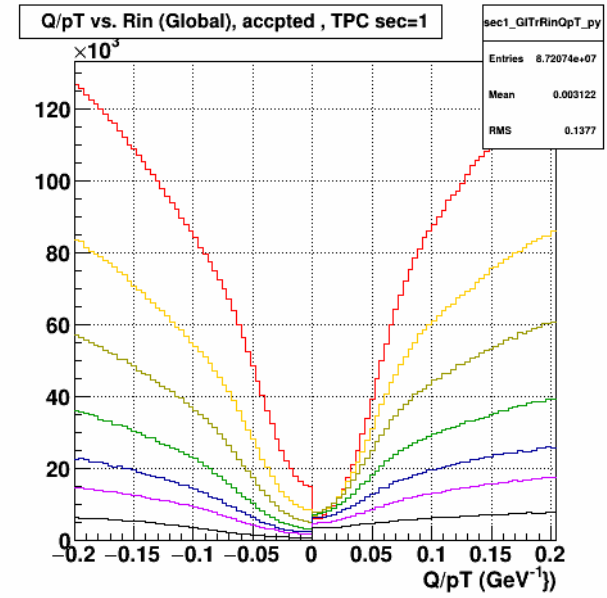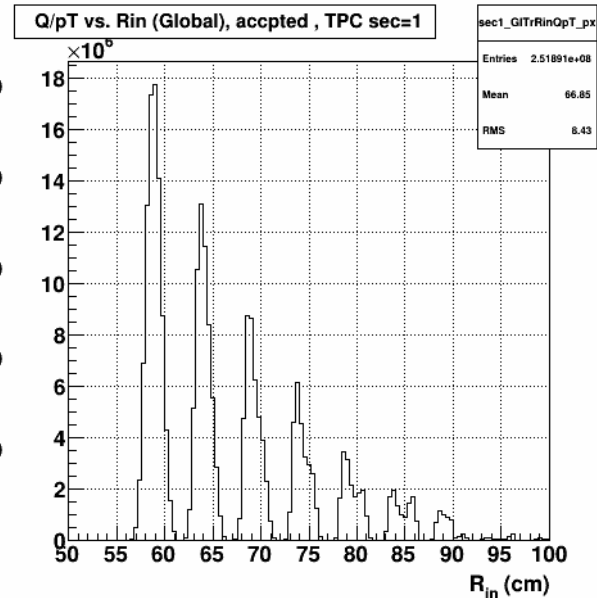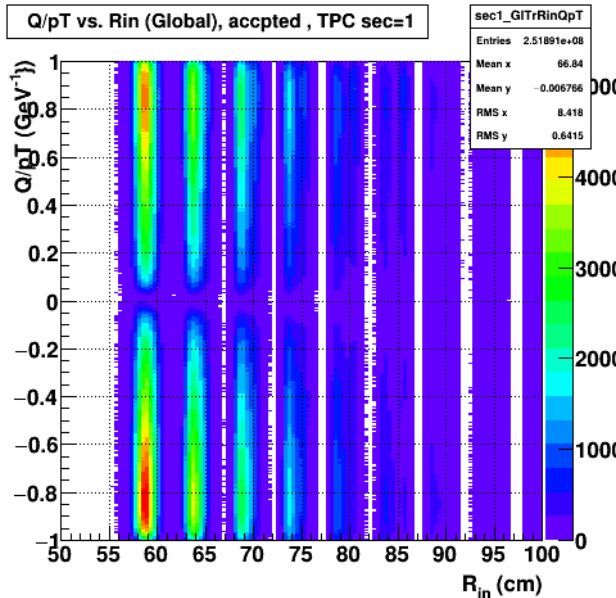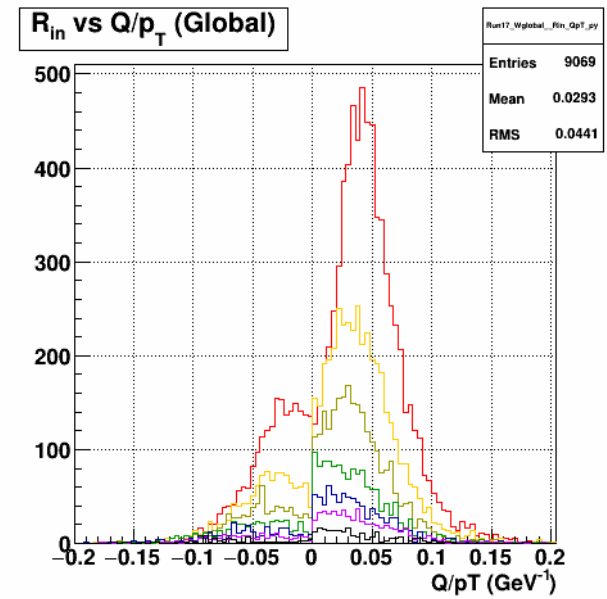 - Tracks with TPC-level cuts
  - Include ~ 90% statistics.

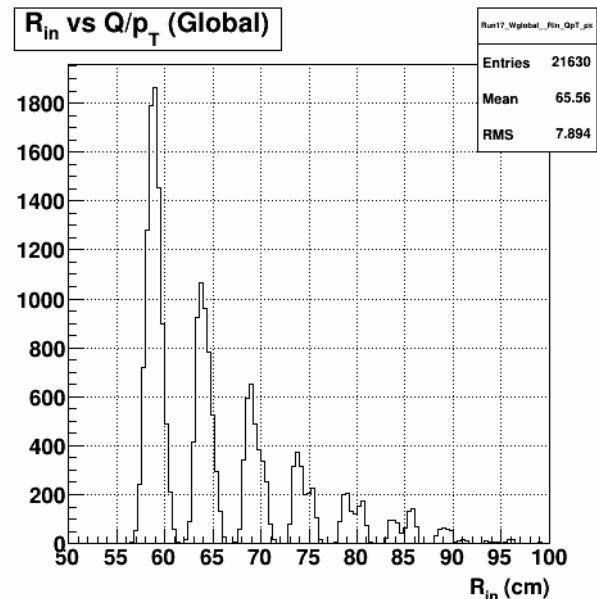# *W* Candidates (top), TPC track (bottom)

W Candidates (top), TPC track (bottom)

R_in vs Q/p_T (Primary)

R_{in} vs Q/p_T (Primary)

Entries   9069
Mean   02044
RMS   0.03666

$< Q/p_T >$ (errorbars = RMS / 10)

Blue : $q = 1$
Red : $q = -1$

Peak ID

Relative Yield

Peak ID

Q/pT vs. Rin (Primary), accpted , TPC sec=1

Entries   8.72074e+07
Mean   0.009338
RMS   0.1386
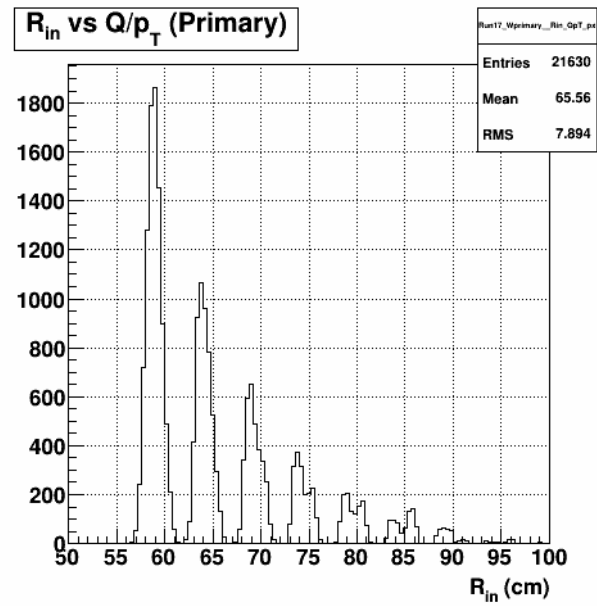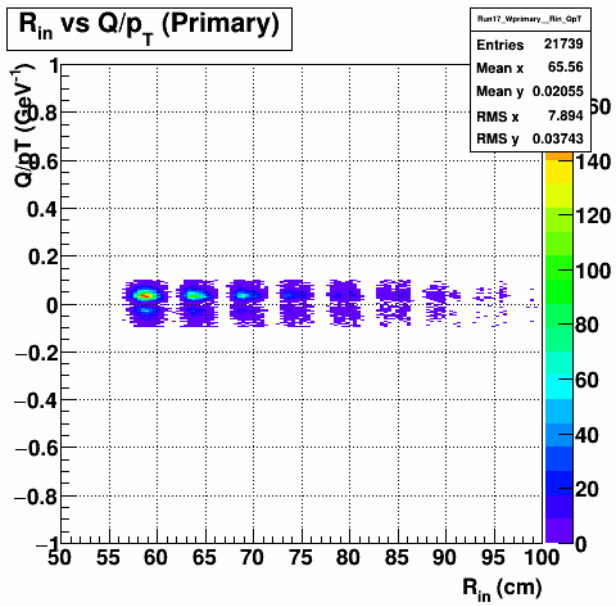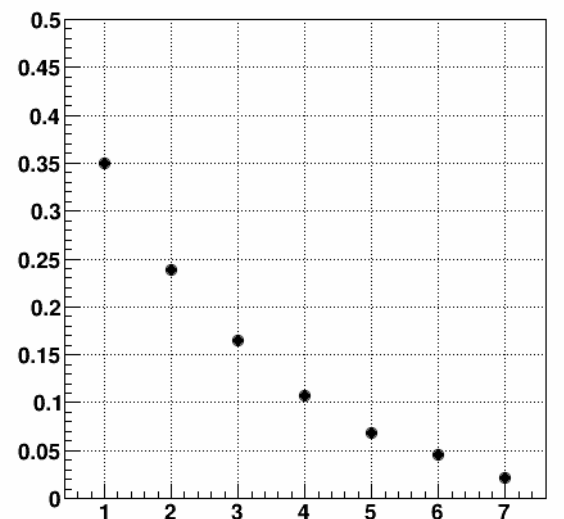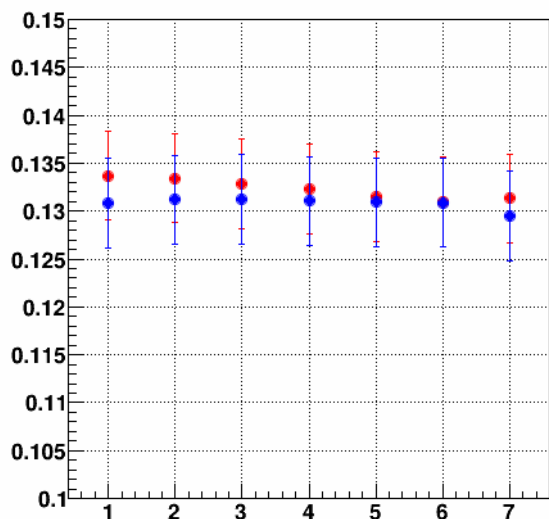
Global track quantities (p_T)

R_{in} vs Q/p_T (Global)

Run17_Wglobal__Rin_QpT_py	
Entries	9069
Mean	0.0293
RMS	0.0441

Q/pT (GeV^{-1})

Q/pT vs. Rin (Global), accpted , TPC sec=1

sec1_GlTrRinQpT_py	
Entries	8.72074e+07
Mean	0.003122
RMS	0.1377

Q/pT (GeV^{-1}})