# New CVT algorithm: effect on the TCS analysis

# Data selection

- New CVT -> with new CVT software and Forward AI tracking

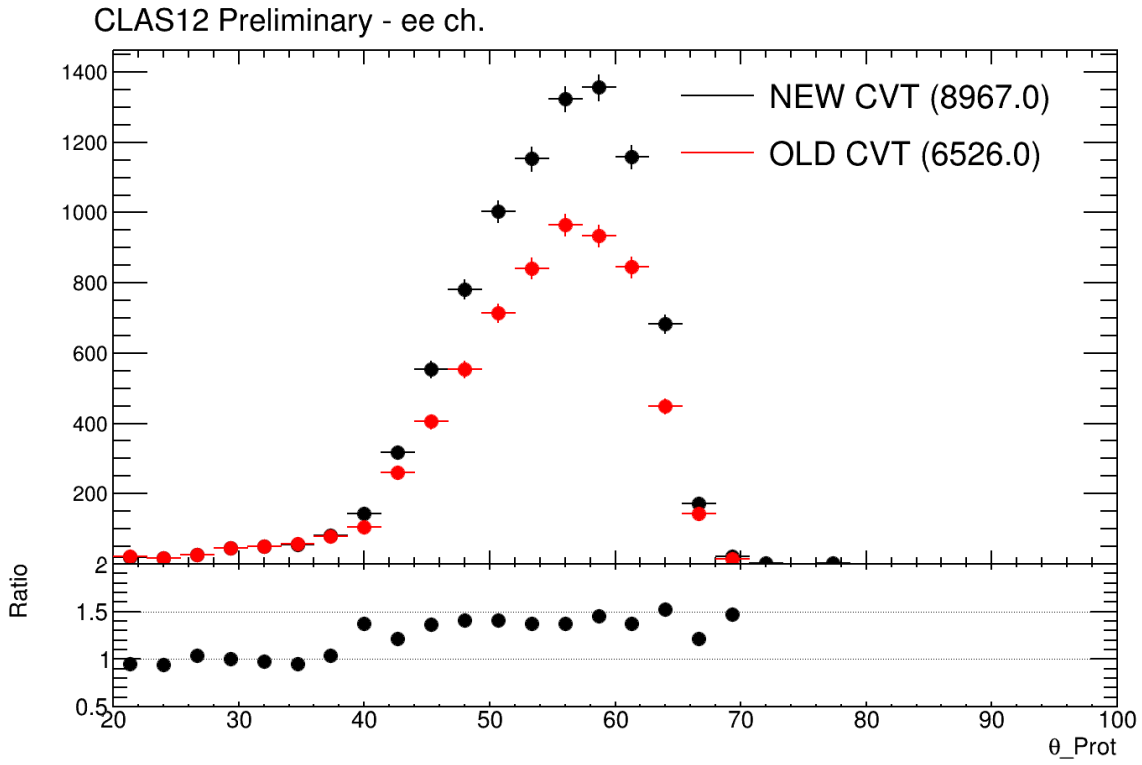
  /volatile/clas12/rg-a/production/pass0/Spring19/sp19_dst_ai_v1_12/dst
- Old CVT -> onlyForward AI tracking

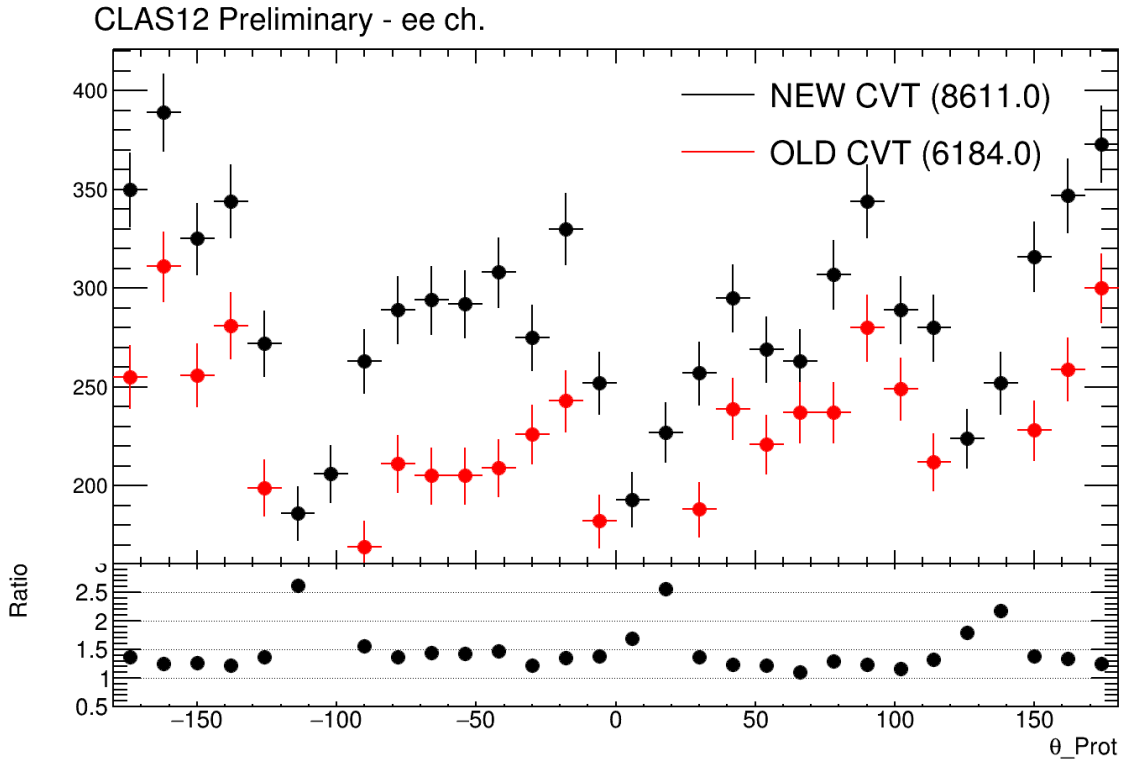
  /volatile/clas12/rg-a/production/pass0/Spring19/sp19_dst_ai_v1_5/dst

- Runs: 6711->6719/6728

- Selection cuts
  - 1 proton/1 electron/1 positron + anything else
  - P_Lepton > 1 GeV & SF_lepton>0.15
  - NN PID for positron
  - abs(M_X^2)<0.4 & abs(Pt/P)<0.05 unless specified
  - NO momentum corrections

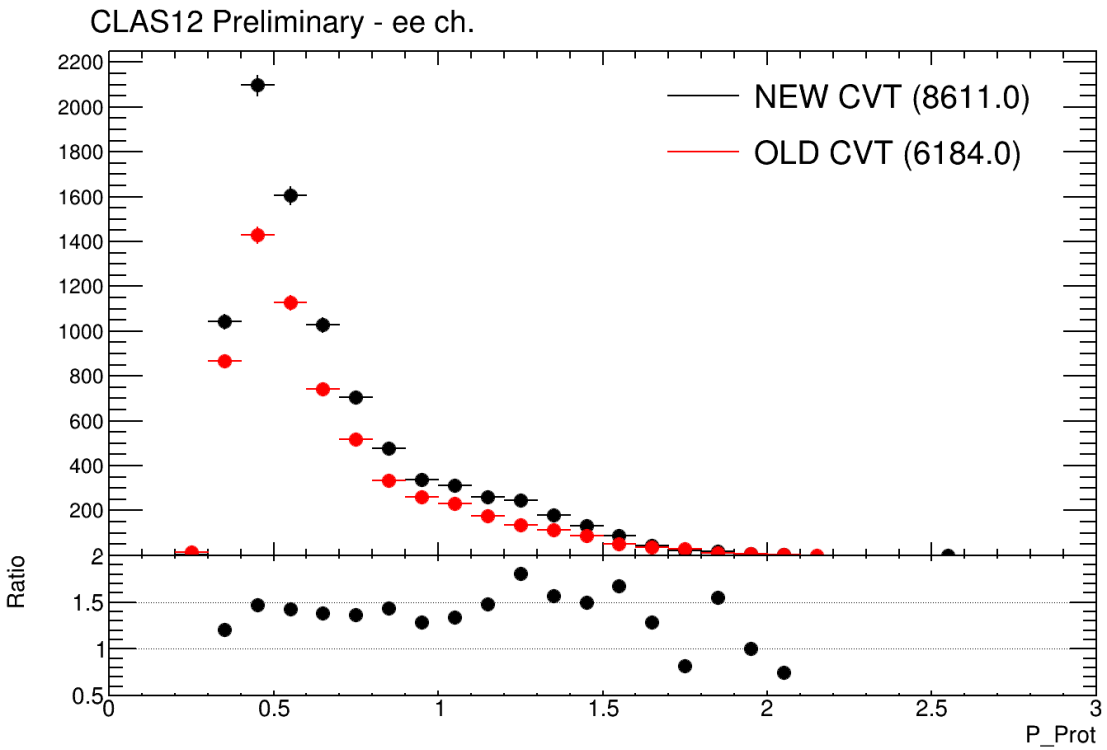
# Proton angles

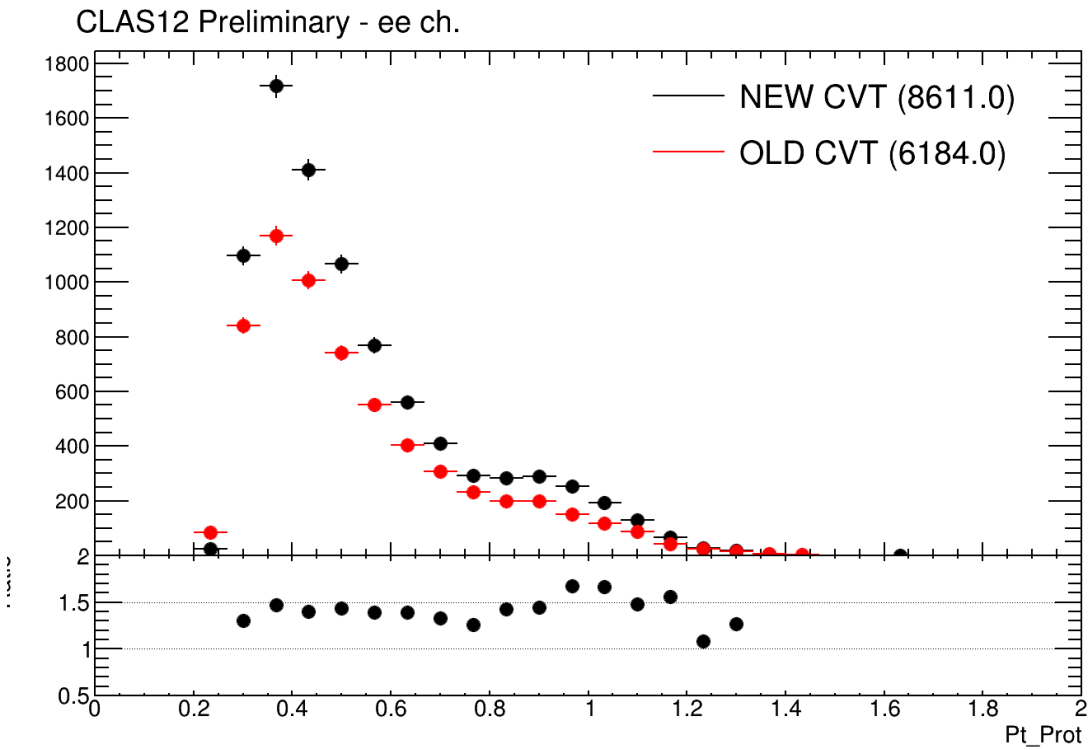



Theta_Proton > 40 deg in the following

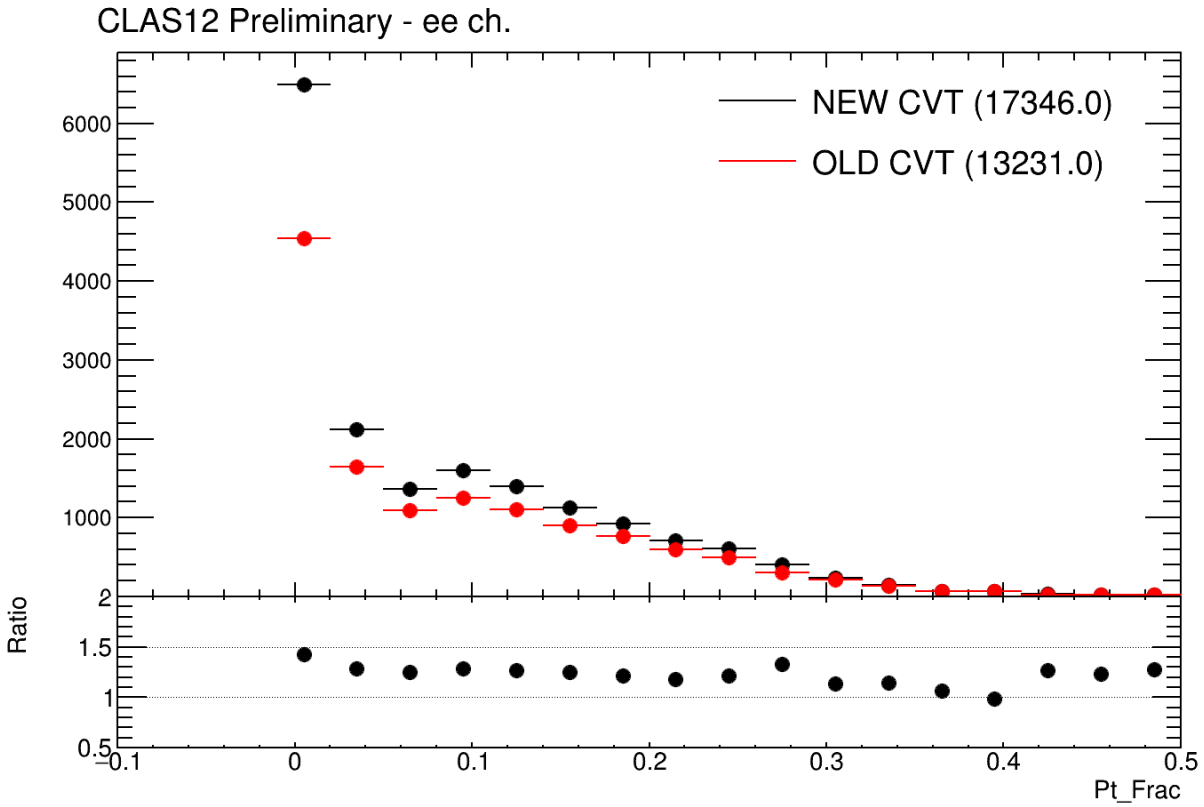
# Proton Momentum

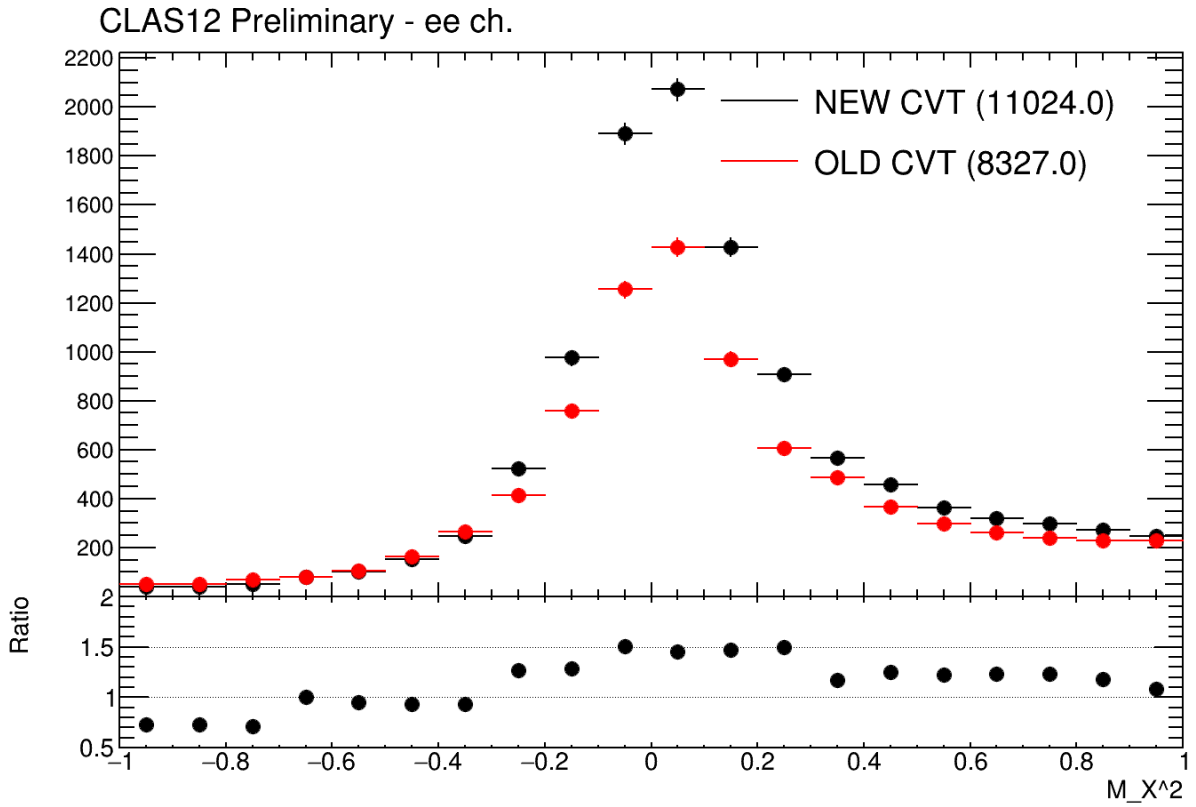


# Exclusivity variables

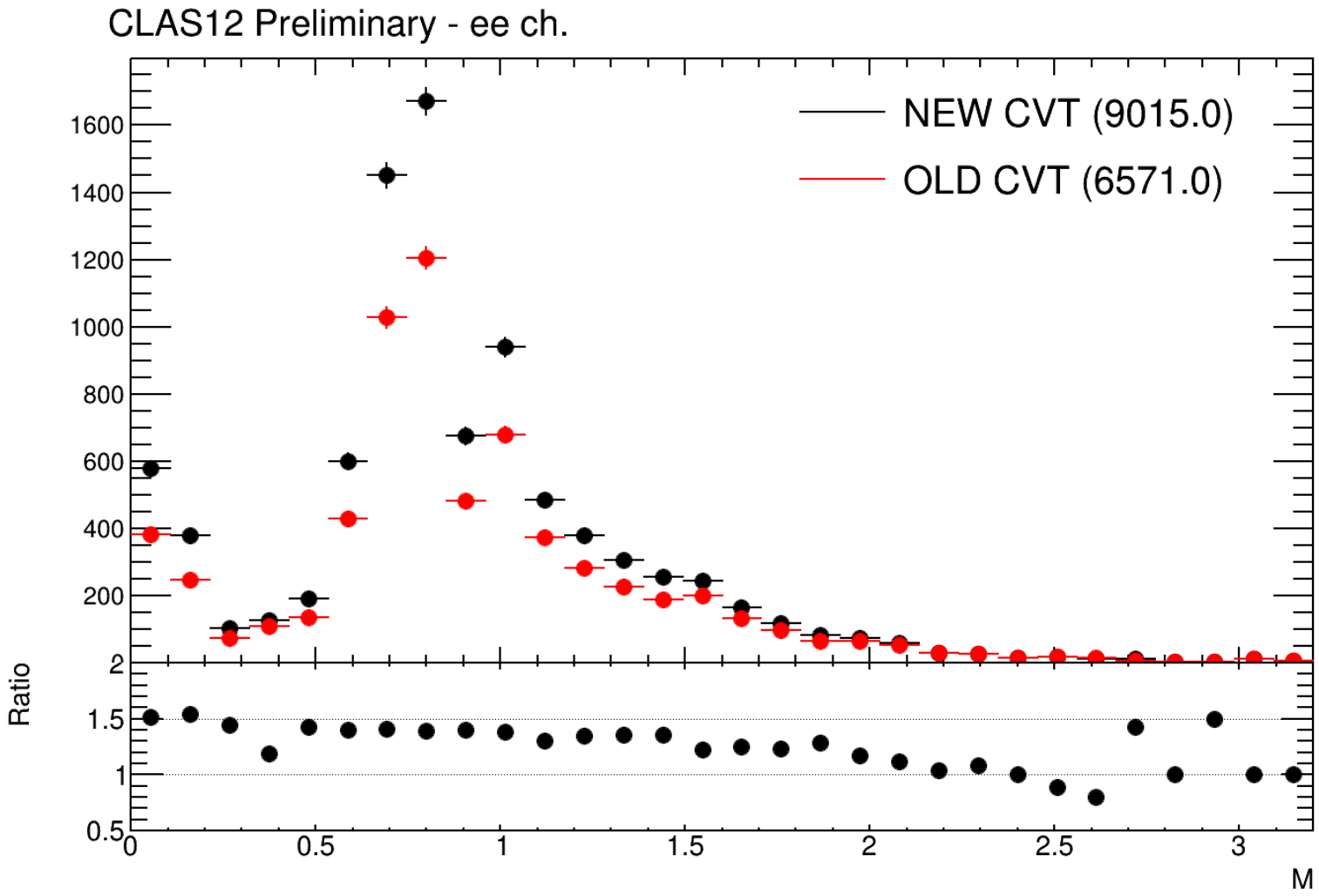
Complementary cut only



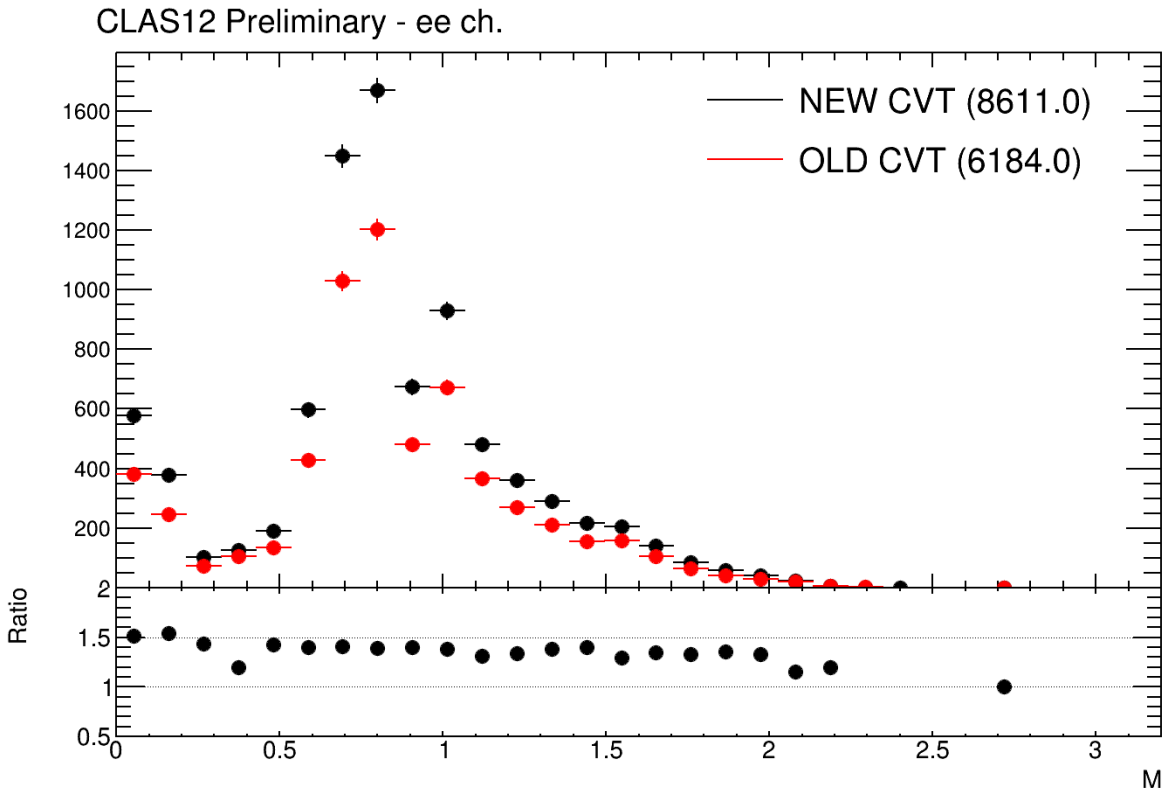
# Invariant Mass

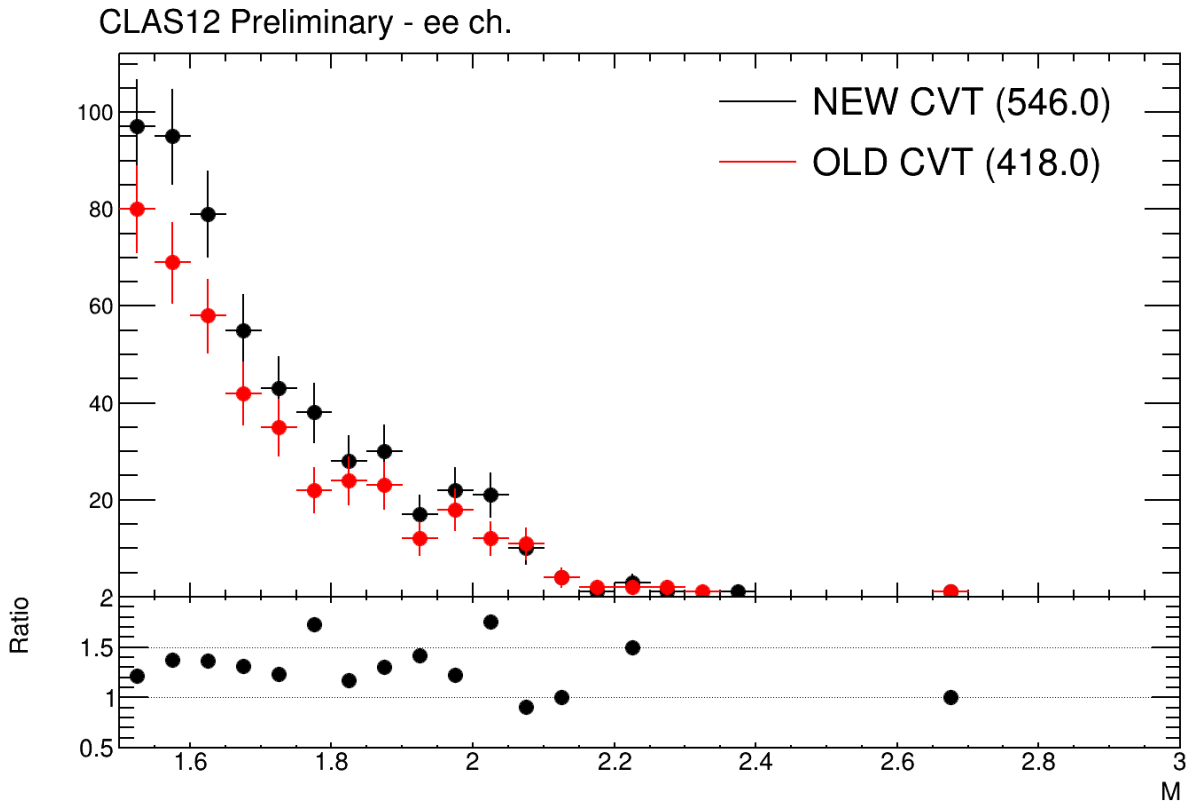
All protons



# Invariant Mass

Theta_proton>40 deg



# Run dependence