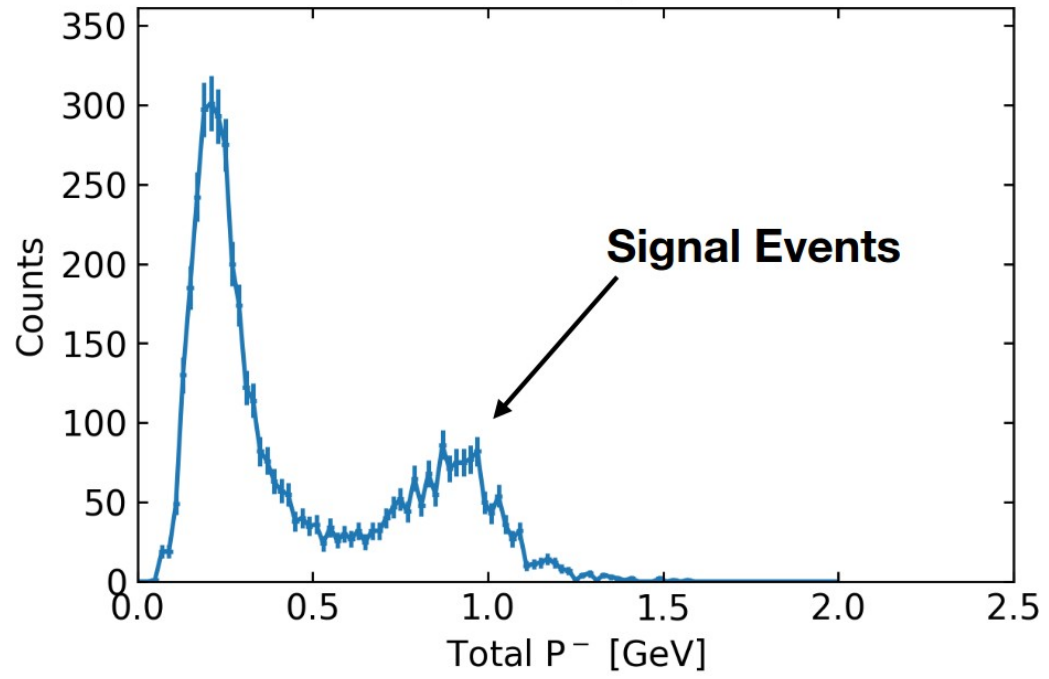
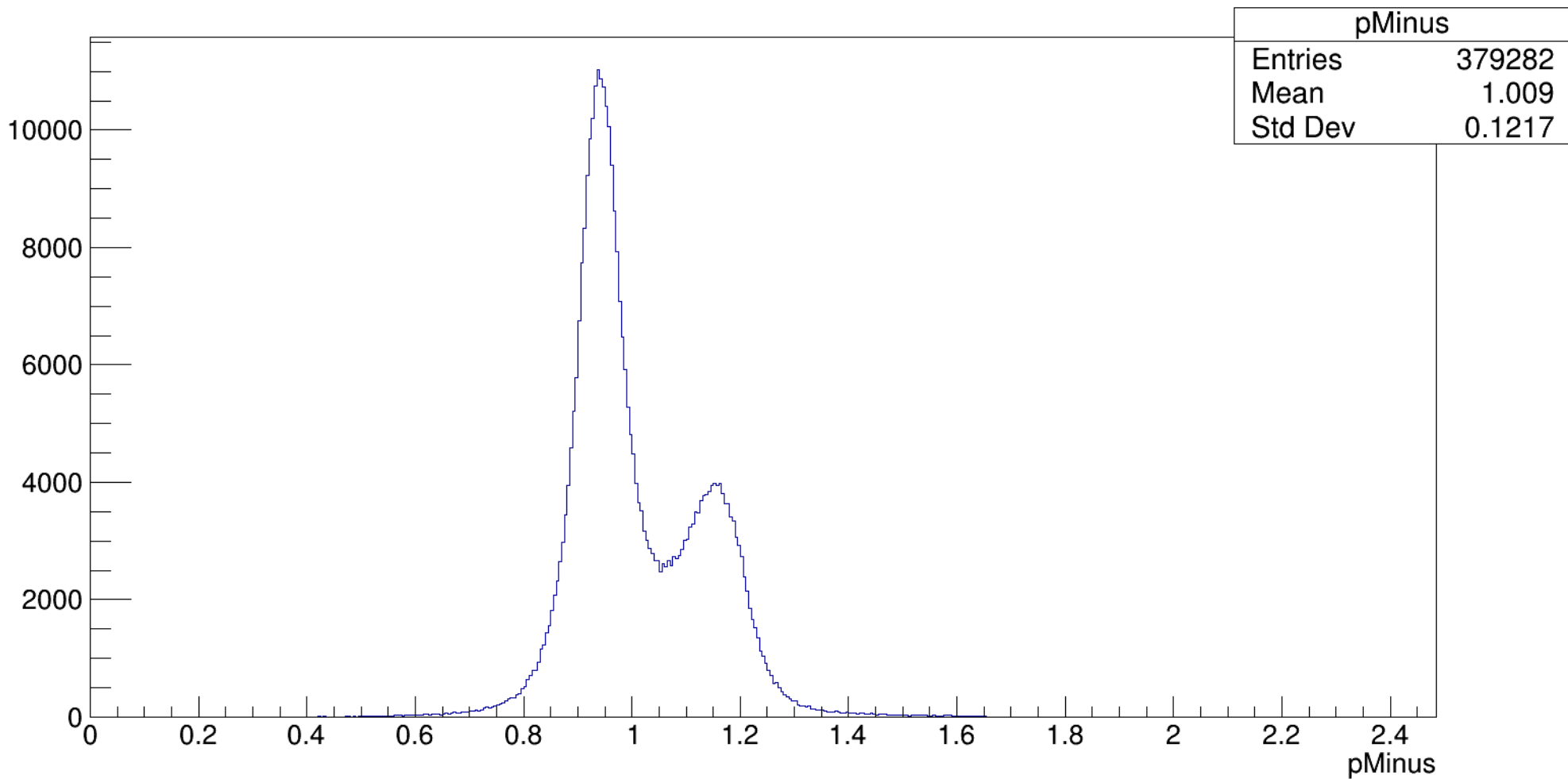


Low- p^- background

After Omega Cut





$\gamma p \rightarrow \rho^0 p$ Target Plots

- Mandelstam t

- $p_{miss}^- = E_{miss} - p_{miss}||_{beam}$

- $p_{miss,\perp}$

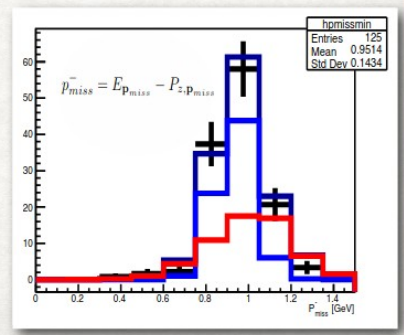
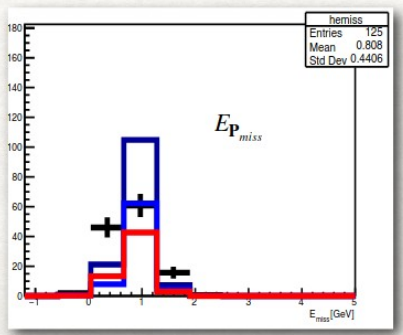
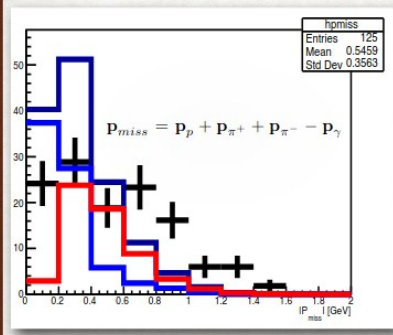
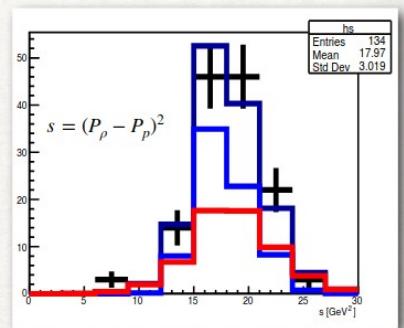
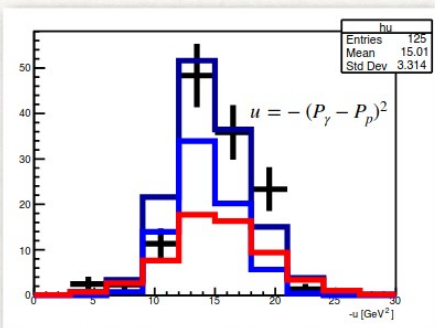
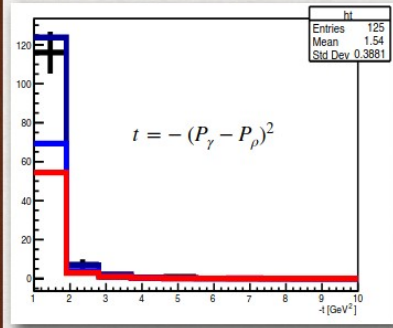
- $k_{miss} \equiv m_N \sqrt{\frac{p_{miss,\perp}^2 + m_N^2}{p_{miss}^-(2m_N - p_{miss}^-)}} - 1$

- $m_{\pi^+\pi^-}$

- E_{miss}

DATA VS SIMULATION

MF+SRC Simulation
MF Simulation
SRC Simulation



```

/////Track
Int_t locBeamID = dComboBeamWrapper->Get_BeamID();
Int_t locPiPlusTrackID = dPiPlusWrapper->Get_TrackID();
Int_t locPiMinusTrackID = dPiMinusWrapper->Get_TrackID();
Int_t locProtonTrackID = dProtonWrapper->Get_TrackID();
// Get P4's: //is kinfit if kinfit performed, else is measured
//dTargetP4 is target p4
//Step 0
TLorentzVector locBeamP4 = dComboBeamWrapper->Get_P4();
TLorentzVector locPiPlusP4 = dPiPlusWrapper->Get_P4();
TLorentzVector locPiMinusP4 = dPiMinusWrapper->Get_P4();
TLorentzVector locProtonP4 = dProtonWrapper->Get_P4();
TLorentzVector locMissingNeutronP4 = dMissingNeutronWrapper->Get_P4();
// Get Measured P4's:
//Step 0
TLorentzVector locBeamP4_Measured = dComboBeamWrapper->Get_P4_Measured();
TLorentzVector locPiPlusP4_Measured = dPiPlusWrapper->Get_P4_Measured();
TLorentzVector locPiMinusP4_Measured = dPiMinusWrapper->Get_P4_Measured();
TLorentzVector locProtonP4_Measured = dProtonWrapper->Get_P4_Measured();

// Combine 4-vectors
TLorentzVector locMissingP4_Measured = locBeamP4_Measured + dTargetP4;
locMissingP4_Measured -= locPiPlusP4_Measured + locPiMinusP4_Measured + locProtonP4_Measured;
//Kinfit
TLorentzVector locMissingP4 = locBeamP4 + dTargetP4;
locMissingP4 -= locPiPlusP4 + locPiMinusP4 + locProtonP4;

//////////Fill Histogram
dHist_pMinus->Fill((locMissingP4_Measured.E() - locMissingP4_Measured.Pz()),locAccWeight);//where locAccweight is accidental subtraction

```

