

A1: proton CT pathcorr after correction. Sigma = 1.181 ns



A2: proton CT pathcorr after correction. Sigma = 1.181 ns: Making cut for proton within CT at +/-3.5 ns about 0 Making cut for background proton at -13.5 to -10 ns section and 6.5 to 10 ns.

Following are the parameter with <mark>Blue</mark> dot for <mark>proton within CT</mark>, **Red** sqare for <mark>background proton</mark>, and green diamond for the <mark>subtraction</mark> of the CT proton from background proton.



W2_sum

A3: W2 from (e,e')

** check what wrong with this W2 seems to be too high



A4: xbj = Q2/(2Mp)



A5: Q2



A6: |q|



A7: y scaling = ((He4_mass+omega)*sqrt(lamda*lamda-He3_mass*He3_mass*W2)-lamda*q3m)/W2,

where lamda = (He3_mass*He3_mass-proton_mass*proton_mass+W2)/2.;



A8: omega = E – E'



A9: Analytical momentum at MWDC



A10: proton momentum correction at MWDC



A11: proton momentum at target



A12: proton Energy = sqrt(M**2+p**2)



A13: proton Kinetic Energy: E - m_p



A14: Missing Momentum = sqrt(\sum[(q_i-p_i)**2])

**checking to compare whether Igor has RHRS momentum distribution to compare to this plots.



A15: Missing momentum x,y,z



A16: Missing momentum angle



A17: recoil Energy: (M_he4) + (omega) - (proton energy)



A18: Missing Mass: sqrt(E_recoil**2-p_miss**2)



A19: KE_recoil = (E_recoil) – (M_miss)



A20: Missing Energy: (omega)-(KE_proton)-(KE_recoil)



A21: Assuming all p_miss is for the forward proton: the KE_forward proton is as shown. E_forward =sqrt(M**2+p_miss**2) the KE_forward = E_forward - M



A22: diff_E_miss_KE_forward_proton = E_miss - KE_forward_proton + KE_recoil = omega -KE_proton -KE_forward_proton = E_miss** assuming all p_miss go to forward proton.



A23: track x location on E_plane

** check the dip of the background around 0.7 and peak ar about 0.3-0.4



2D figures for variation of pairing to check possible cuts.

A24: E vs p



A25: MWDC momentum vs tg_theta to check the polarity ** this need to be implement because it seem to have effect in the next page.



A26: trx vs MWDC mometum

******problem at trx = 0.2 maybe the bar problem.



A27: Missing momentum vs recoil Energy



A28: Missing momentum vs Missing E



A29: Missing momentum vs Missing Mass



A30: P_miss With Omega



A31: P_miss with Q2



A32: p_miss with |q|



A33: P_miss with xbj



A34: P_miss vs W2



A35: P_miss vs y-scaling



A36: x vs E_miss



A37 x vs missing_mass



A38: Missing momentum vs y scaling



A39: xbj vs Recoil Energy



A40: xbj vs omega



A41: xbj vs Q2

CT_pathcorr_vs_trx_sum



A42: Ctpathcorr vs Ebar location

CT_pathcorr_vs_p_sum



A43: CT pathcorr vs momentum at MWDC