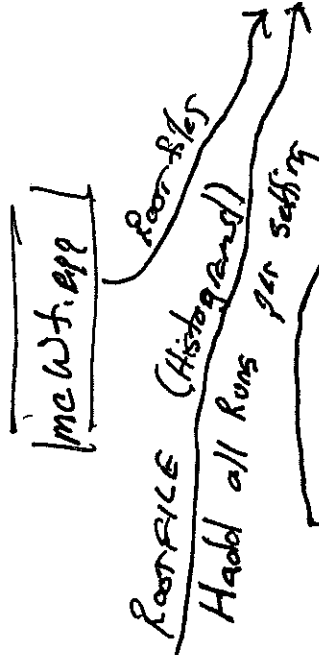


GITHUB REPO
WinHenry Temple / Cross Sections



datayield.cpp
 PS (1-Pion)
 weight = $L T, E_{\text{track}} E_{\text{trigger}} E_{\text{cor}}$

Delta Histograms
 hdd → Fill (delta, weight)
 herr pt2pt → Fill (delta, err * wt)
 ~~~~~  
 boil, track, trigger  
 herr-live → Fill (delta, live \* wt)  
 Same for boiling correction, boiling err,

exAndratios.cpp  
 plot\_exAr.cpp  
 \* gets model & theory curves  
 \* calls extractCs.cpp  
 \* make cross section table (xsectStk.cpp)

Found in PlotCv folder

extractCs.cpp  
 as = 0 xsec/model  
 1 xsec w/ pt 2 pt  
 2 xsec error band  
 3 xsec stat only  
 \* gets Kinematic Error  
 \* gets Charge error, livetime error, boiling err  
 \* gets Radiative Correction error  
 \* gets Cross section mode ( table  
 \* SHMS delta correction  
 \* if as=3 calls getGlobalError.cpp  
 \* returns TGraph  
 \* USES output from ratios.cpp  
 \* adds Charge error and radiative  
 Dummy error to pt 2pt error

getGlobalError.cpp  
 \* gets CSB, acceptance  
 \* Calculates total global error  
 - pion contamination  
 - density error  
 - Ceronkov  
 - Kinematic  
 - Charge Symmetric Background  
 - Acceptance  
 - Radiative Correction  
 - Live-time

\* Divide combined histograms by hdd to get event weighted average for boiling correction, livetime errors, etc  
 \* rebin if needed  
 \* combine statistical & pt 2pt err.  
 \* charge normalize yields  
 \* subtract dummy  
 \* data/MC ratio  
 \* Output histograms  
 - data/MC statistical only  
 - data/MC stat + pt 2pt

Found in P2-src-code repo

Checks here " for " helper code getCSBerror.cpp e.g