

Set environment before doing anything!

Bin\_Splitter.C

env\_bins.sh

source env\_bins.sh

Dependencies:

counts.root

rtree.root

pol.root

trigid.dat

root12fms Output files  
../Output/\*.root

Output file reduction  
loop\_ReduceData

reduced dataset  
redset/\*.root

loop\_Diagnostics  
diagset/\*.root  
hadd\_Diagnostics  
add\_diag.pl

diagset/setdep.root

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phi distributions  
phiset/\*.root

red arrow = automated by  
analyse \$output\_dir

Make Phi Distributions  
loop\_PhiDists

mass\_cuts.dat

diagset\_tight  
/all.root  
(see below)

DrawDiagnostics.C

diag\_plots/diag\_web.html

diag\_plots/\*.png

toa\_add.C

printPDFs=1

wdist\_pdfs/\*.pdf

Manually look for  
hot towers and append  
the runs to **exclusion\_list\*\***

exclusion\_list\_\*

phiset/all.root

asym\_call \$output\_dir

- first calls **AsymBG.C** for the background asymmetry
- calls **Asym4.C** for three classes of events (sph, pi0, thr); note that pion purity is hard-coded here
- then calls **DrawAsymmetries.C** which draws plots for asyms vs. phi and vs. kinematic variables

asym\_plots/[\$output\_dir]

- asymcanv\*.root (canvases)
- .png (pngs of asymcanv.root)
- \*.html files for web viewing
- spin\*.root (raw graphs)
- runlist\*.list (final run list)
- env\_bins.sh (env for this pass)

## Some Other Diagnostics...

root12fms Output files  
../Output/\*.root

BxingDistPi0.C

pi0\_bx\_dist.pdf

RUNLIST.dat

chandists/\*.root

loop\_HotChannelSearch

HotChannelDraw.C

hot\_chan.pdf

DrawPtThreshes.C

diagset/ptthresh.root

## diagset/setdep.root dependent subroutines

setdep.root  
contains  
Ttree \* threshtr  
data tree for  
src/KinBounds

loop\_DiagnosticsTight  
diagset\_tight/\*.root

hadd\_DiagnosticsTight

add\_diag.pl tight

diagset\_tight/  
setdep.root

diagset\_tight/  
all.root

MassCutter.C  
[DEPRECATED]

mass\_cuts.pdf

mass\_cuts.dat

for loop\_PhiDists above

DrawDiagnostics.C  
(change argument...)

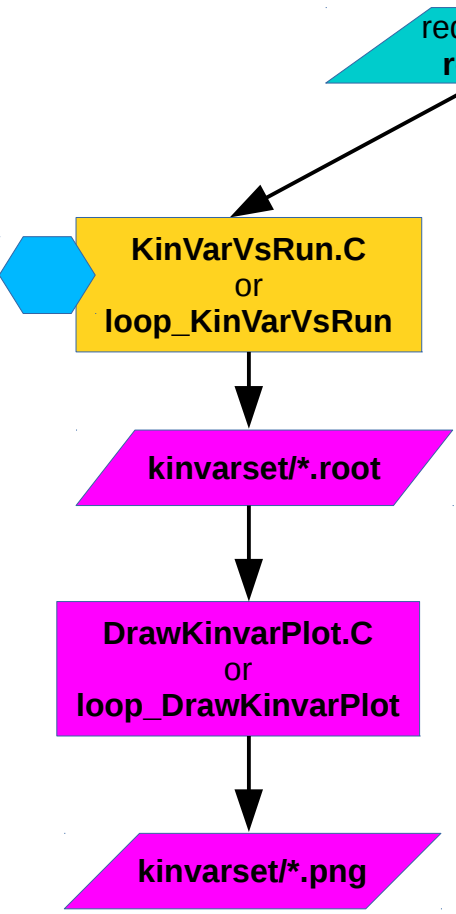
diag\_plots/diag\_web.html

diag\_plots/\*.png

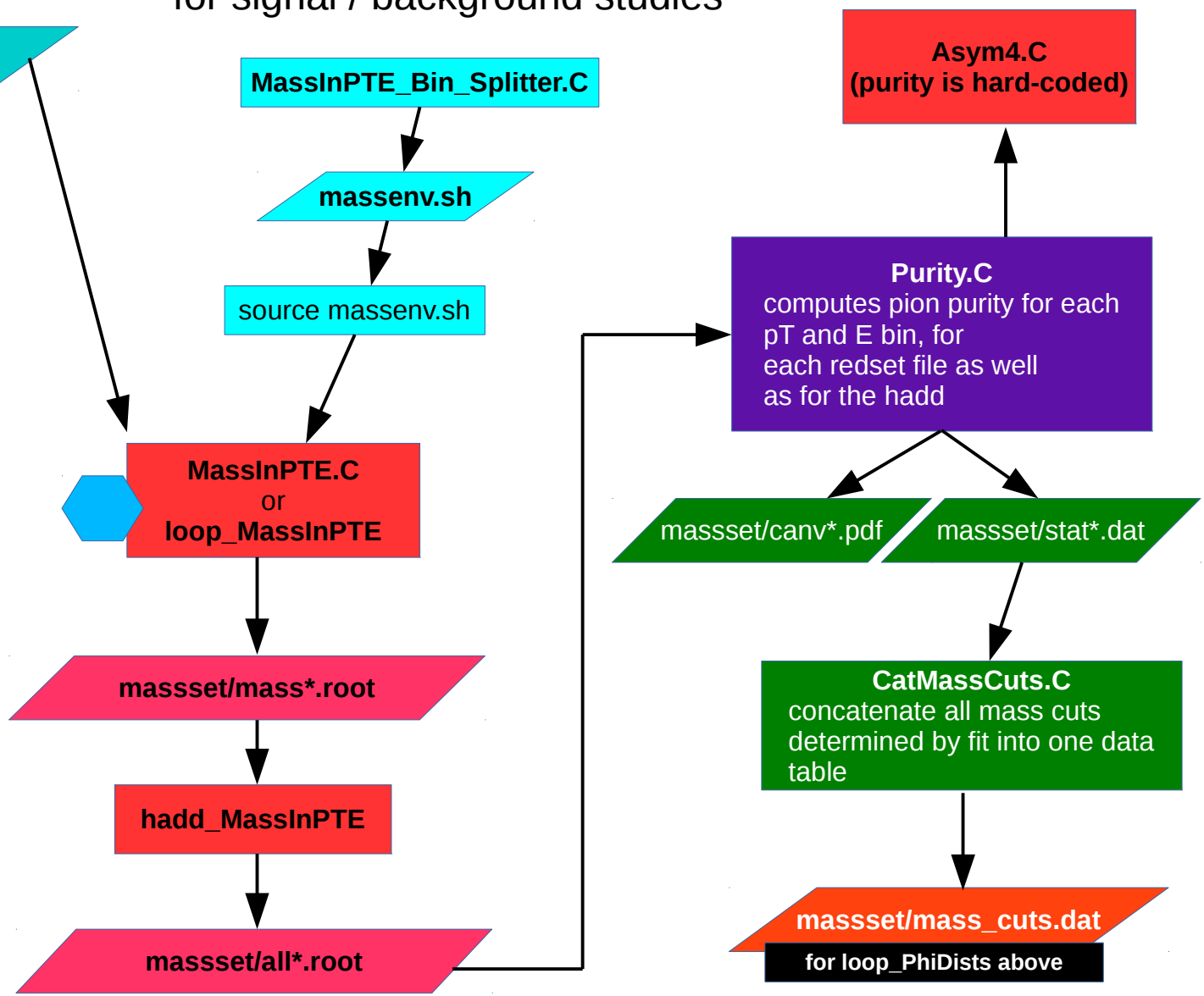
print\_diag.pl  
print\_diag.pl tight

pdf\_kincorr/\*/\*/\*.pdf

Kinematic vs. Run plots



Mass in pT-E plane  
- for signal / background studies



# Reading Events and Triggers

