

First Analysis of .5G Bkg. Events using V7R3

Processed 500M v7r3 Bkg. events run at SLAC (9968 sec.)

Processed 2M v7r3 All Gammas (1.905×10^6 Events)

Cuts:

- 1) FilterStatusHi == 0
- 2) TkrNumTracks > 0
- 3) CalEnergyRaw > 5
- 4) CalCsIRLn > 4

Processed events through IM scripts

- 5) BestEnergyProb > .1
- 6) PSFProb > .1
- 7) Bkg. Rej. PreFilters

The files on UW's glast-ts will be:

D:\users\atwood\DC2DataSets -
was.....

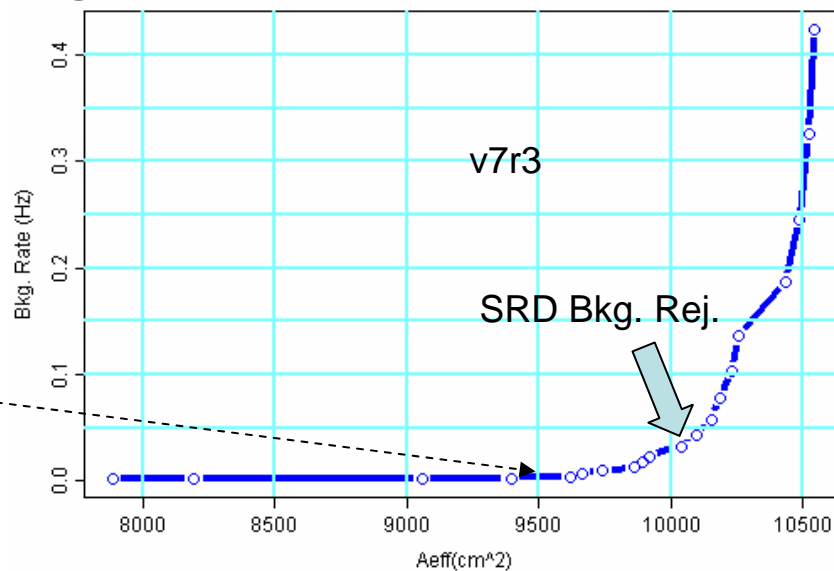
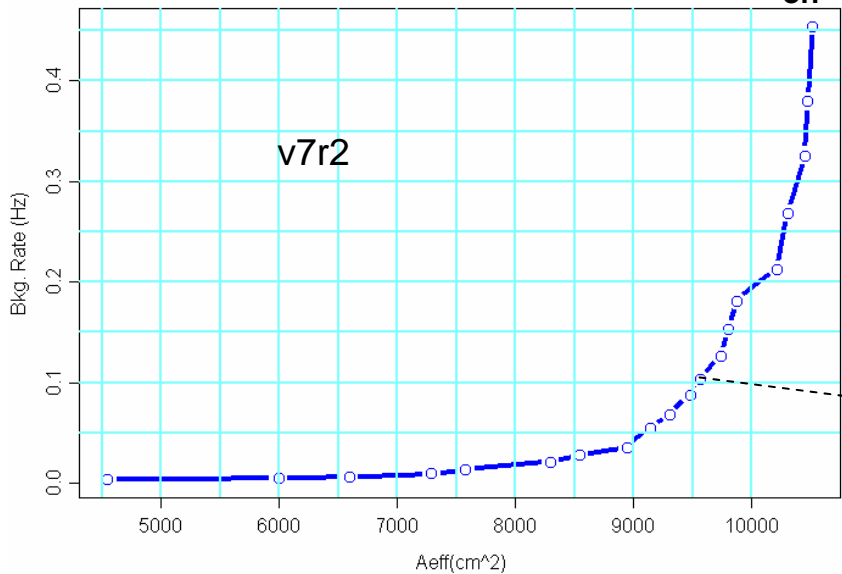
Bkgv7r2_500M_Pub_Full.txt	- 65556 events
AGv7r2_2M_Pub_Full.txt	- 121509 events

and Now...

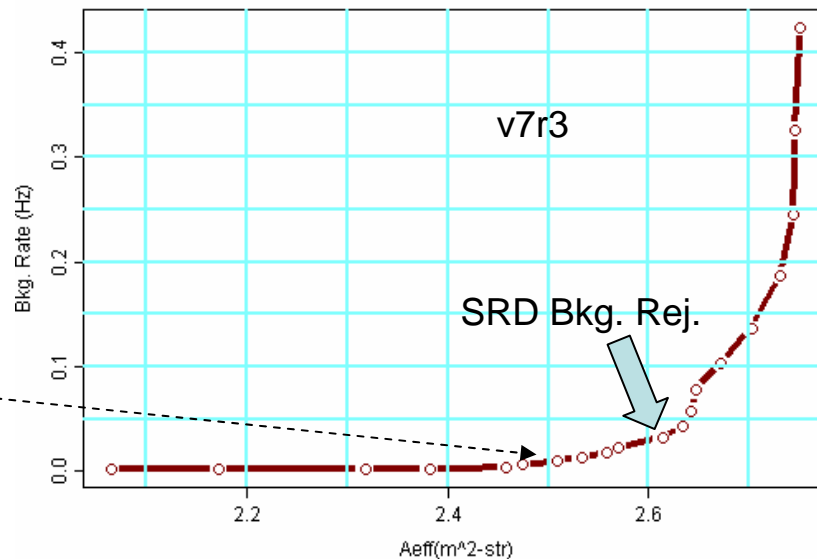
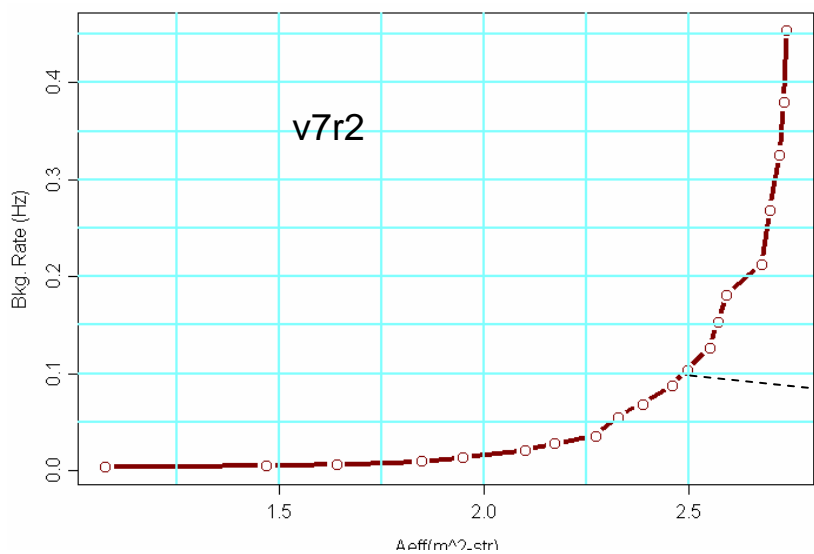
Bkgv7r3_500M_Pub_Full.txt	- 12120 events
AGv7r3_2M_Pub_Full.txt	- 112379 events

*What a difference the
new variables make!*

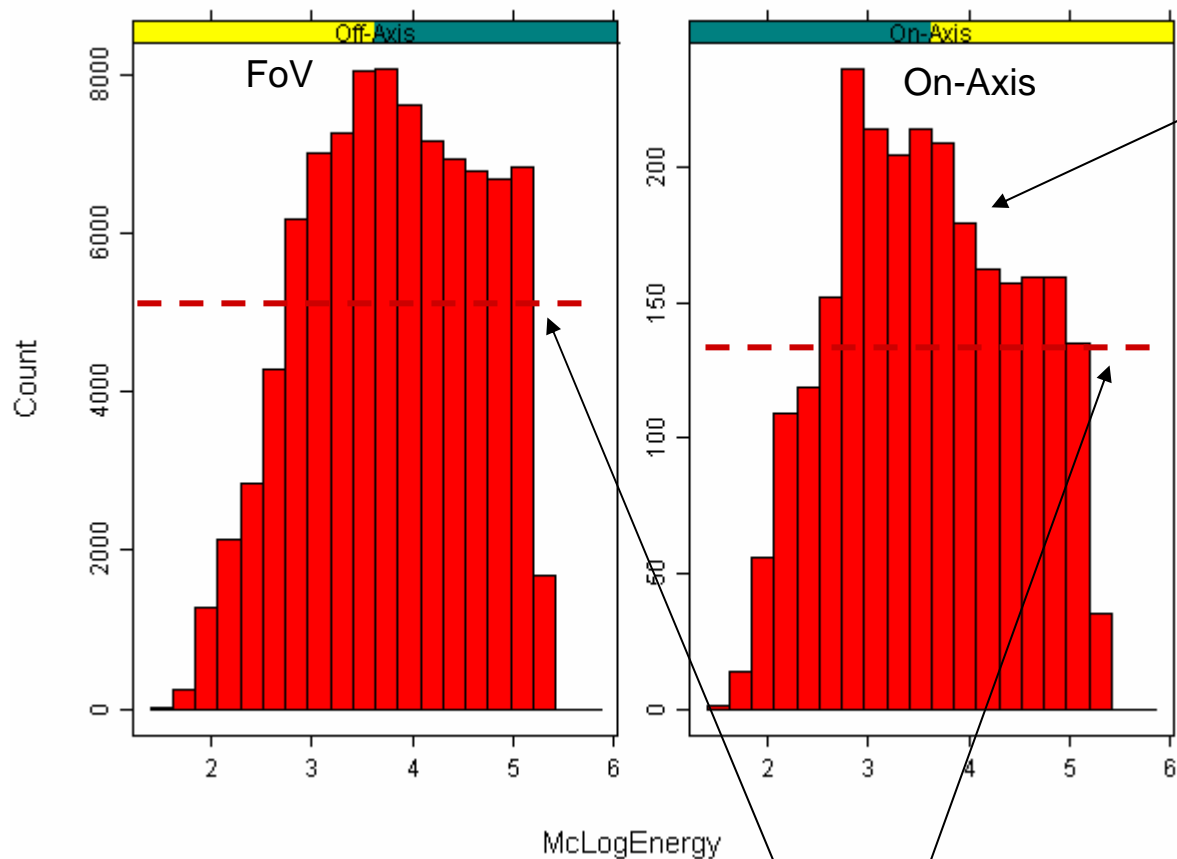
A_{eff} vs Bkg Rate



$A_{\text{eff}} \times \Delta\Omega$ vs Bkg Rate

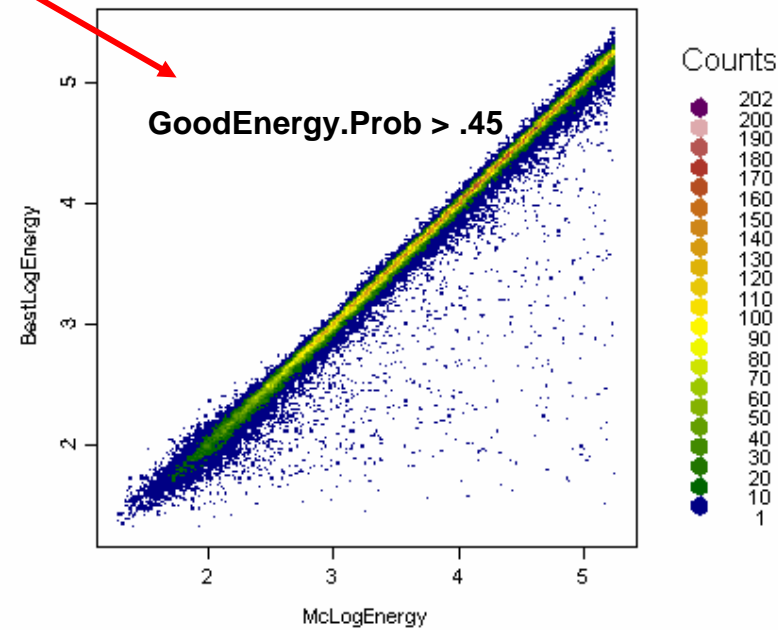
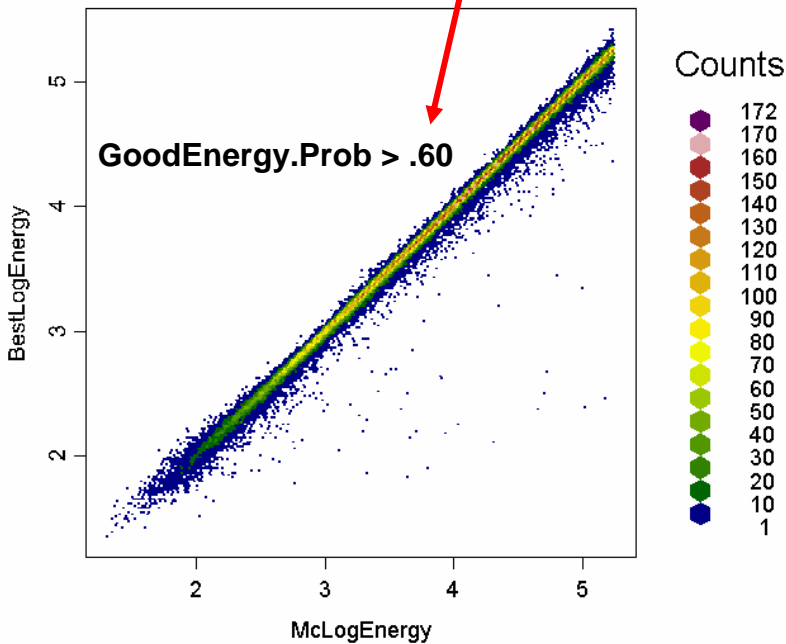
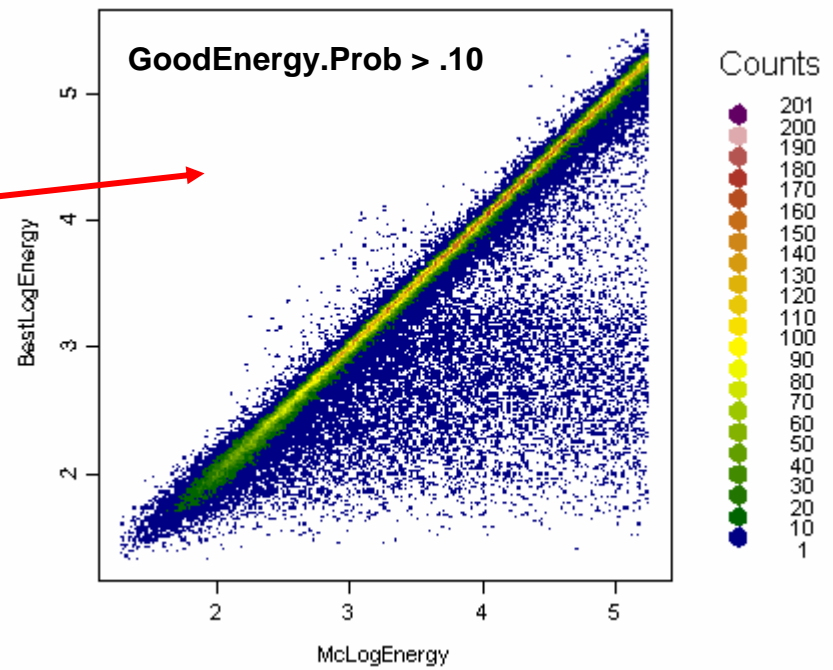
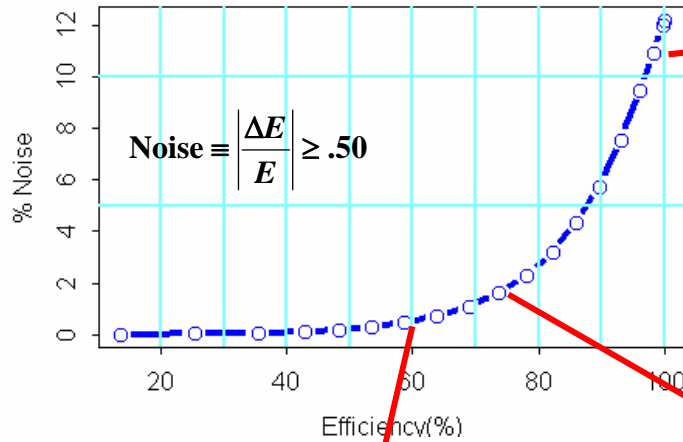


Caveat: Could be Training Bias – New Prefilters left too few events for reliable CTs



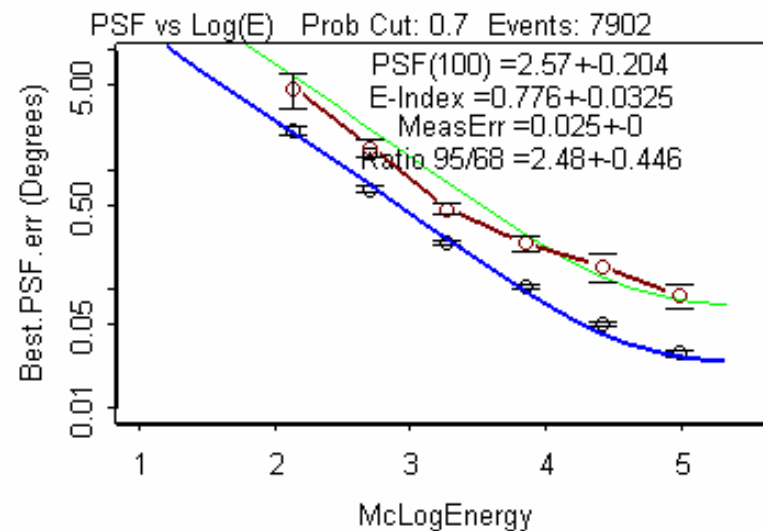
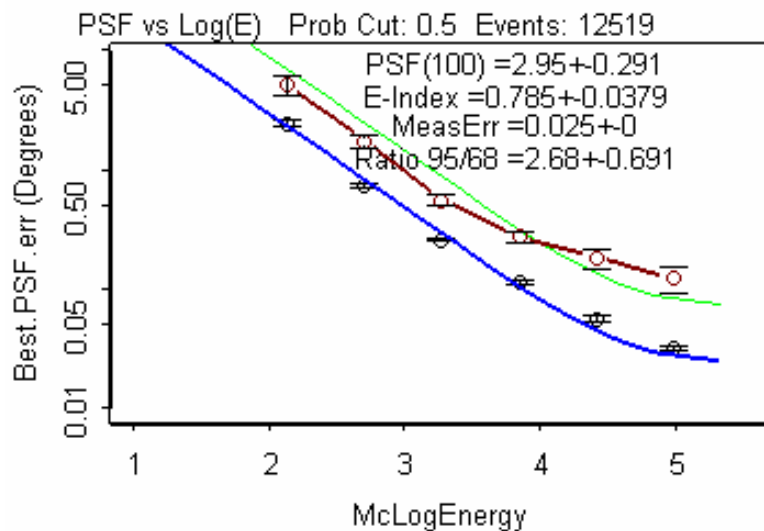
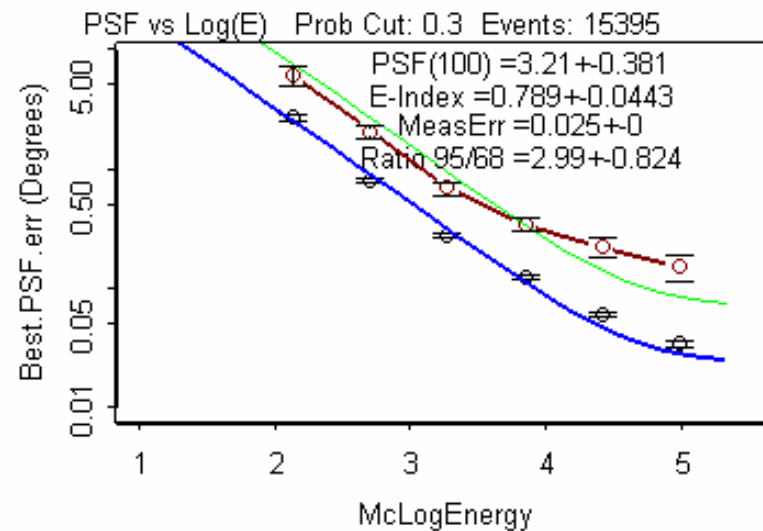
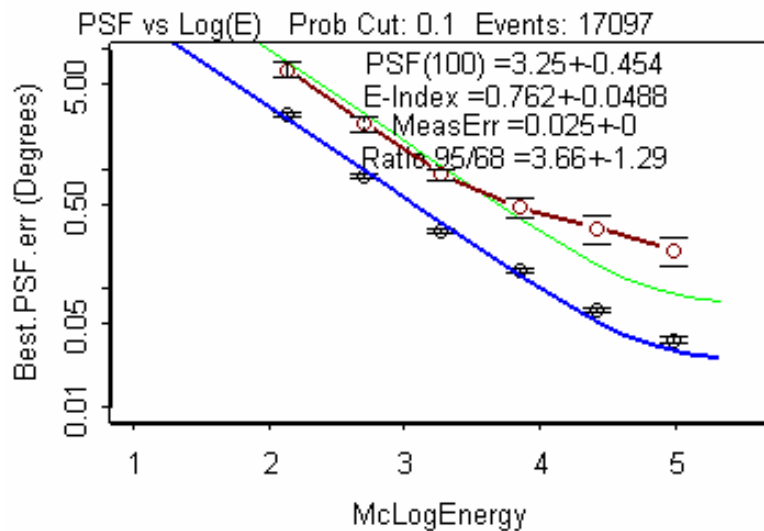
SRD: 8000 cm² (On-Axis)
 1.6 m²-str $A_{\text{eff}} \times \Delta\Omega$

BestEnergyProb



PSFProb

(BestZDir < -.9)



At GoodGammaProb > .45 (SRD for Bkg. Rej.)

PSF between 50° - 60° Off Axis

SRD: < 6°

