

Run RunReport	Status	Test Script Name	Test Report	SVAC Report	Events / Errors	Duration (s)	Root Files	Start	Particle	Instrument	Orientation
398000218	ABORTED	TkrPowerConsumptionTest	Report	digi recon config	0/0	37	digi recon merit	2005-01-16 17:47:35	None	TKR CABLE TEST	N/A

~ a long ways down

136000226	FAILED	suiteSummary	Report	digi recon config	0/0	0	digi recon merit svac	2005-02-23 02:38:37	None	TkrFMA	Vertical
140001338	FAILED	DataTaking	Report	digi recon config	105524/4	2356	digi recon merit svac	2005-02-23 23:13:21	None	Not Defined	Vertical
140001339	FAILED	DataTaking	Report	digi recon config	102159/3	2263	digi recon merit svac	2005-02-23 23:55:05	None	Not Defined	Vertical
140001340	FAILED	DataTaking	Report	digi recon config	103200/3	2290	digi recon merit svac	2005-02-24 00:34:03	None	Not Defined	Vertical
140001341	PASSED	TkrGTRCConfiguration	Report	digi	0/0	0	digi	2005-02-24	None	Not Defined	Vertical

Down Load this one (~ 68 MB)

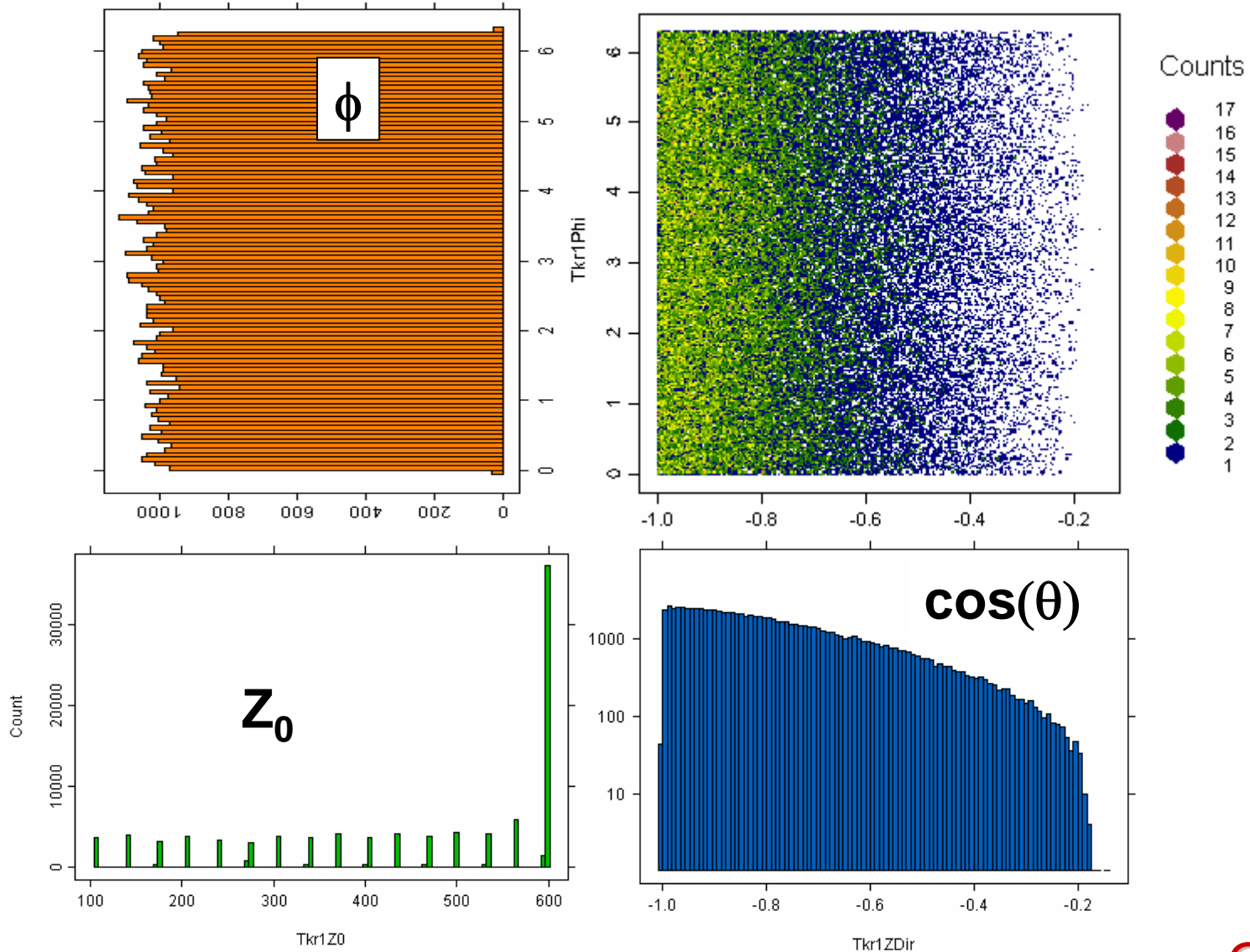
**A minor discrepancy: What arrived was 103198 events
(according to Run List: 103200 events)**

Name of File: recon-EM2-v1r0_140001340_merit_merit.root

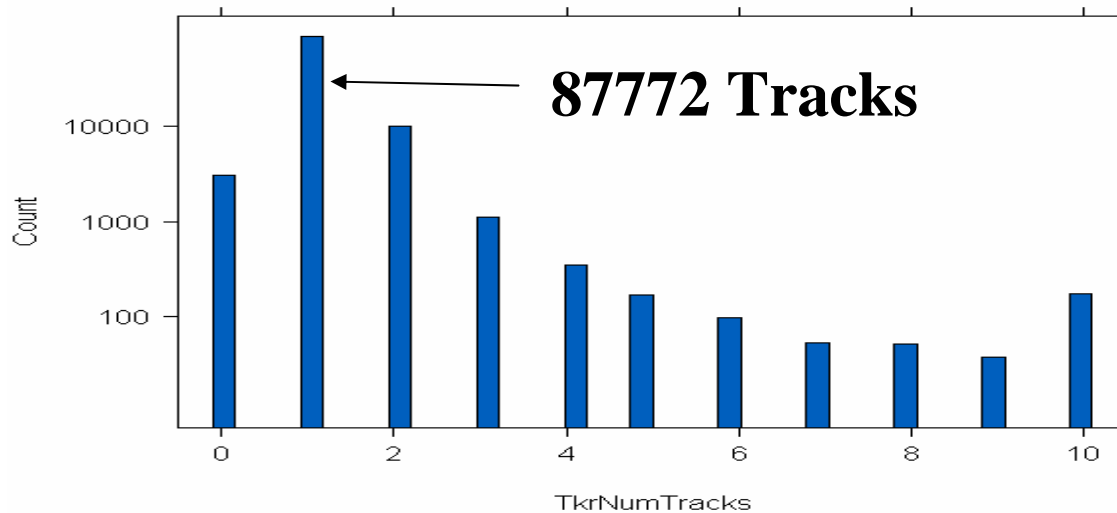
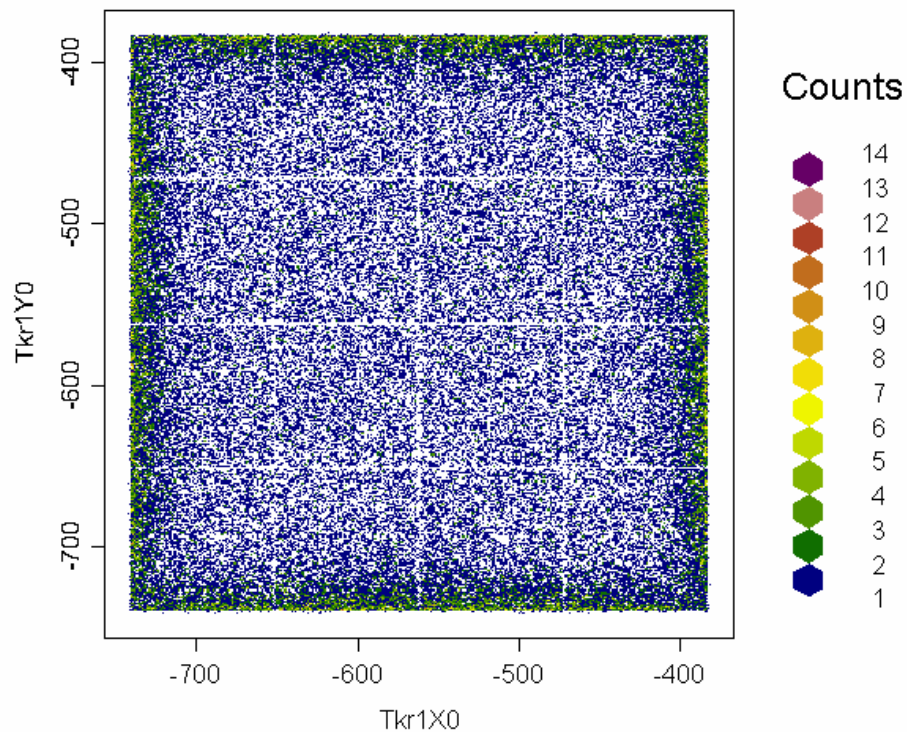
Found Tracks: Phase Space

Events Selection: $\text{TkrNumTracks} > 0$ and Tkr1X0 & Y0 within Tower Limits

Yield: 100K Events

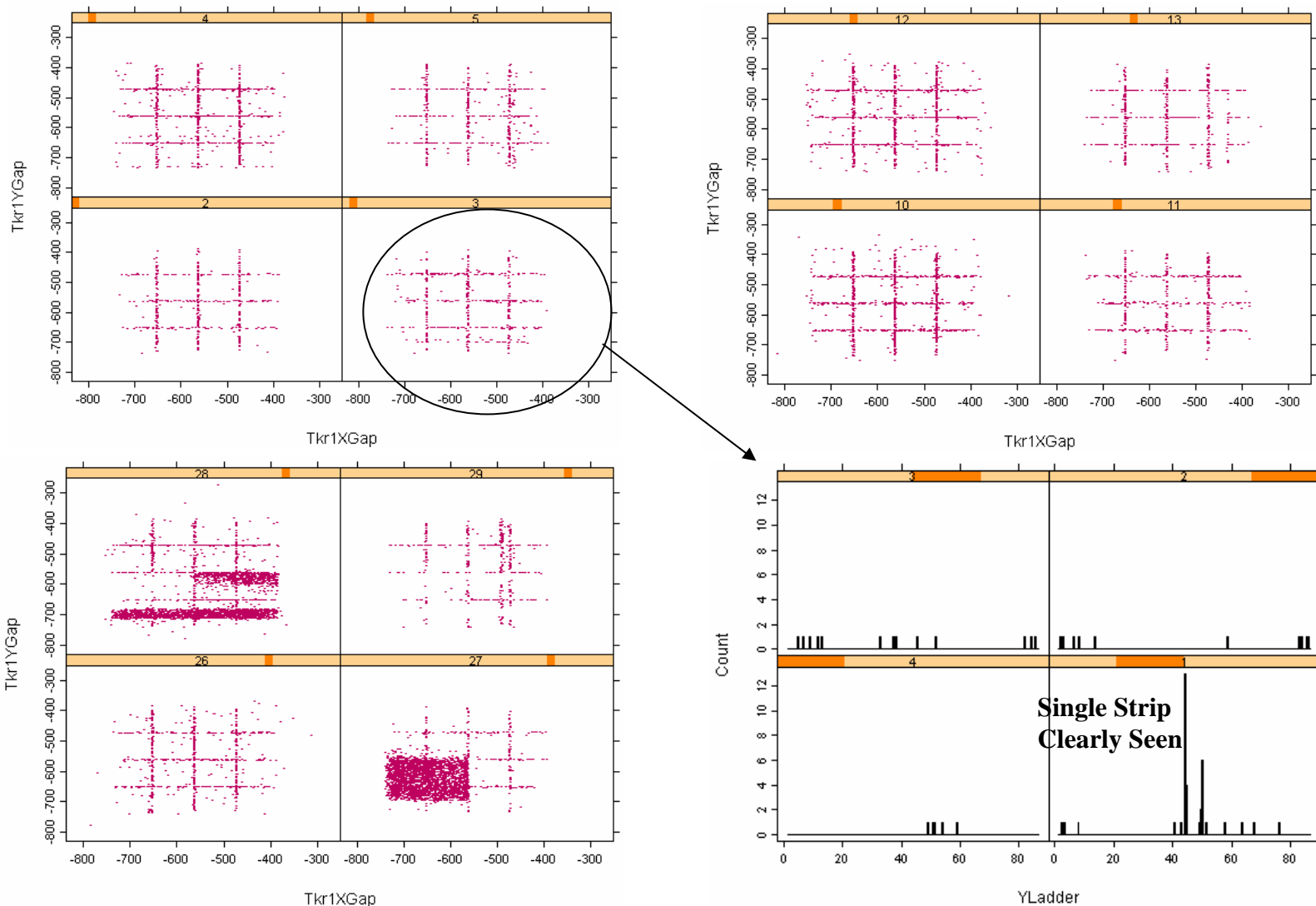


Found Tracks: Phase Space (continued)



Single Tracks: Finding the DEAD STRIPS

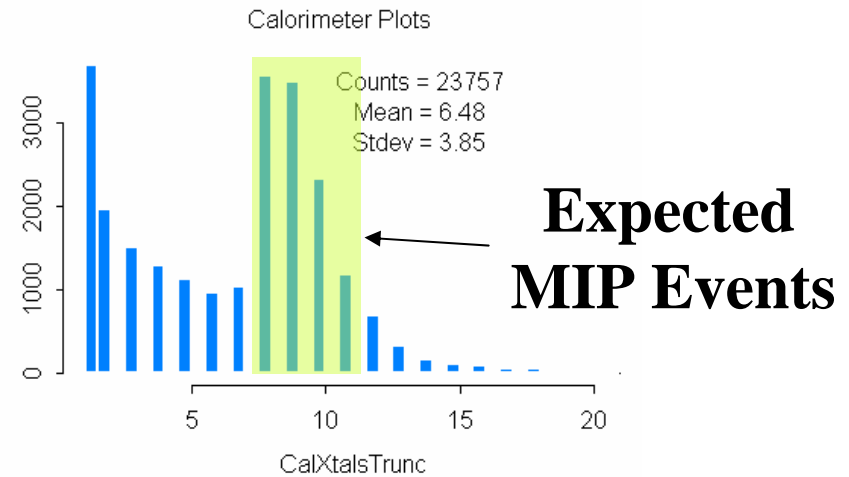
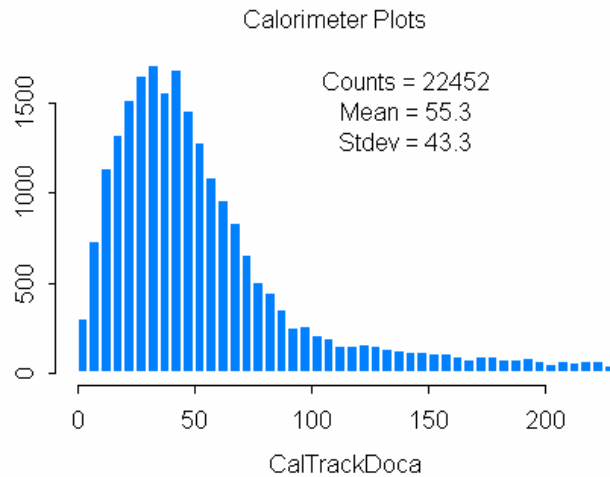
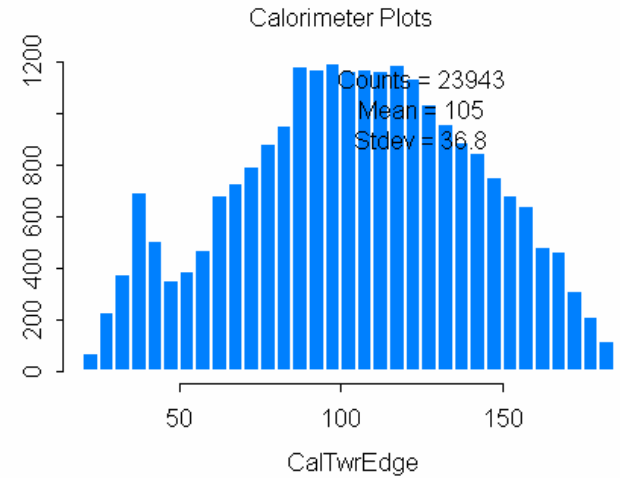
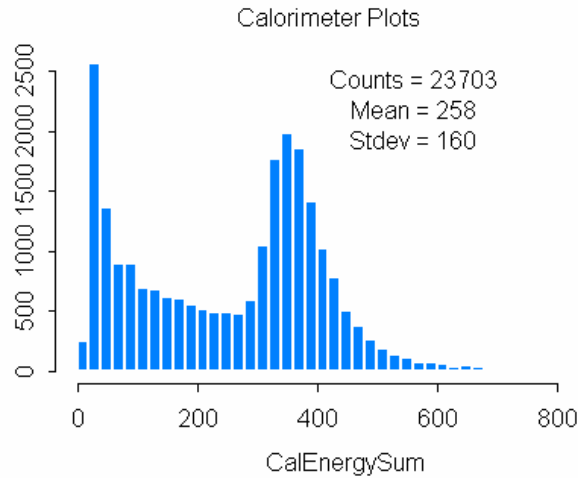
Merit Variables: Trk1FirstGapPlane and Tkr1XGap, Tkr1YGap



Single Tracks in the Calorimeter

Events Selection: CalEnergySum > 5 MeV

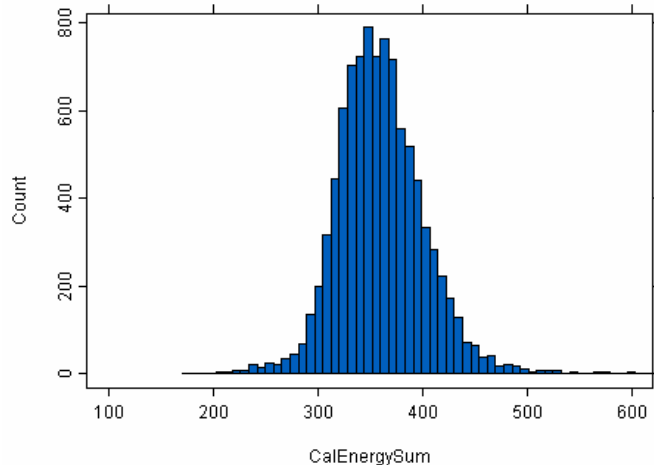
Yield: 23.9K Events



More Calorimeter

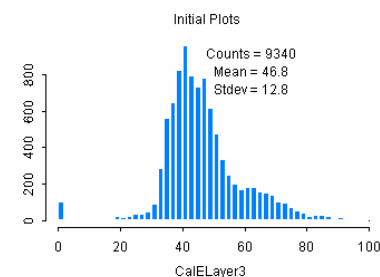
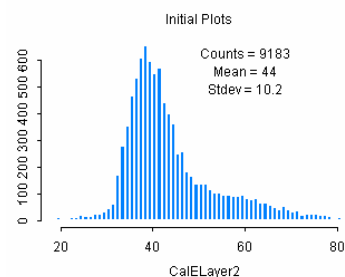
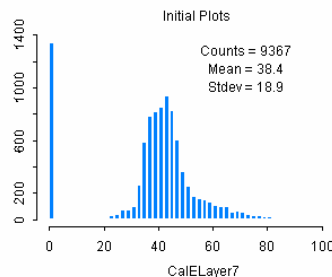
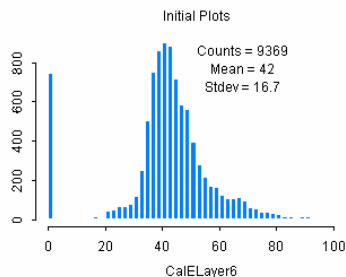
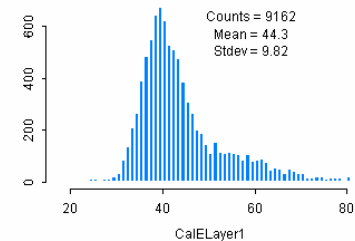
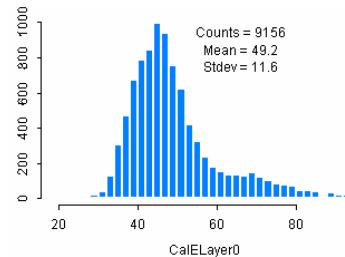
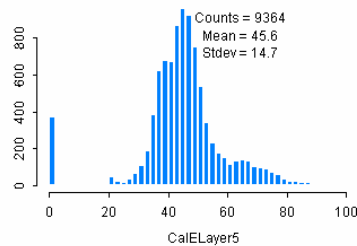
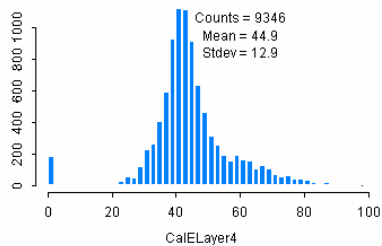
Events Selection: CalXtalsTrunc > 7 & < 11

Yield: 9400 Events



**MIP Signal SHOULD BE
~ 100 MeV (Ooopsss!)**

Layer-by-Layer

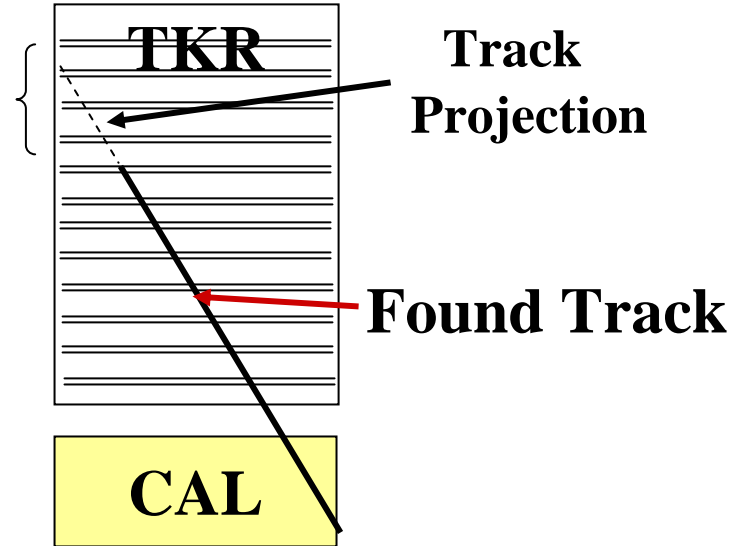


Finding the Gammas

Used Merit Variable Tkr1SSDVeto

This variable is a count of the number of silicon planes the projected track crosses

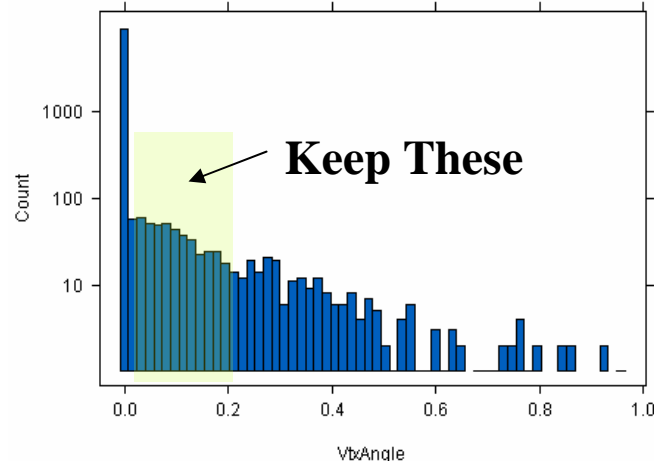
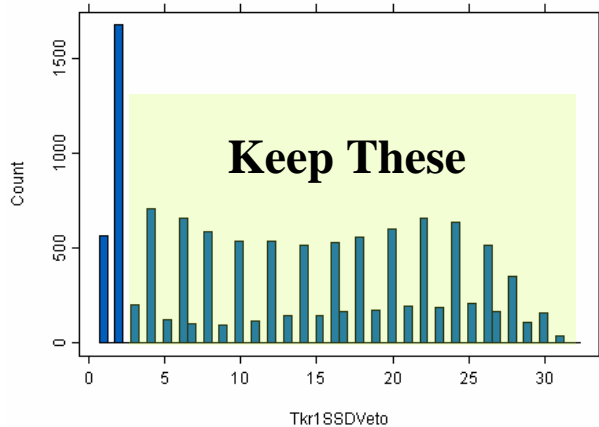
Allows using the SSDs in the tracker as an ACD



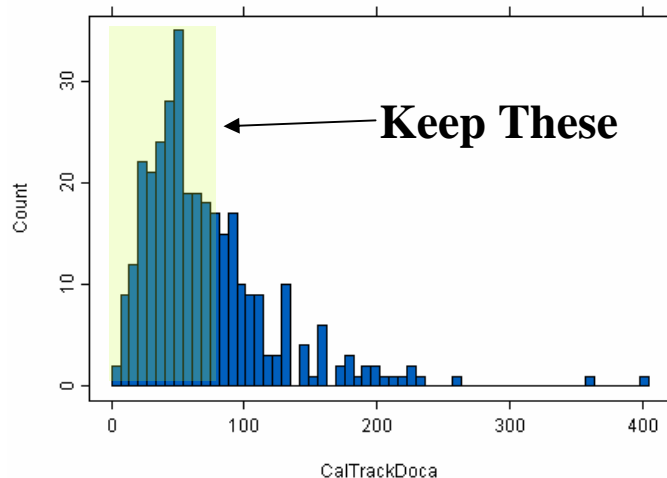
Require: $Tkr1SSDVeto > 0$ &
 $CalEnergySum > 50$

Yield: 12 K Events

Vertex Events are cleaner

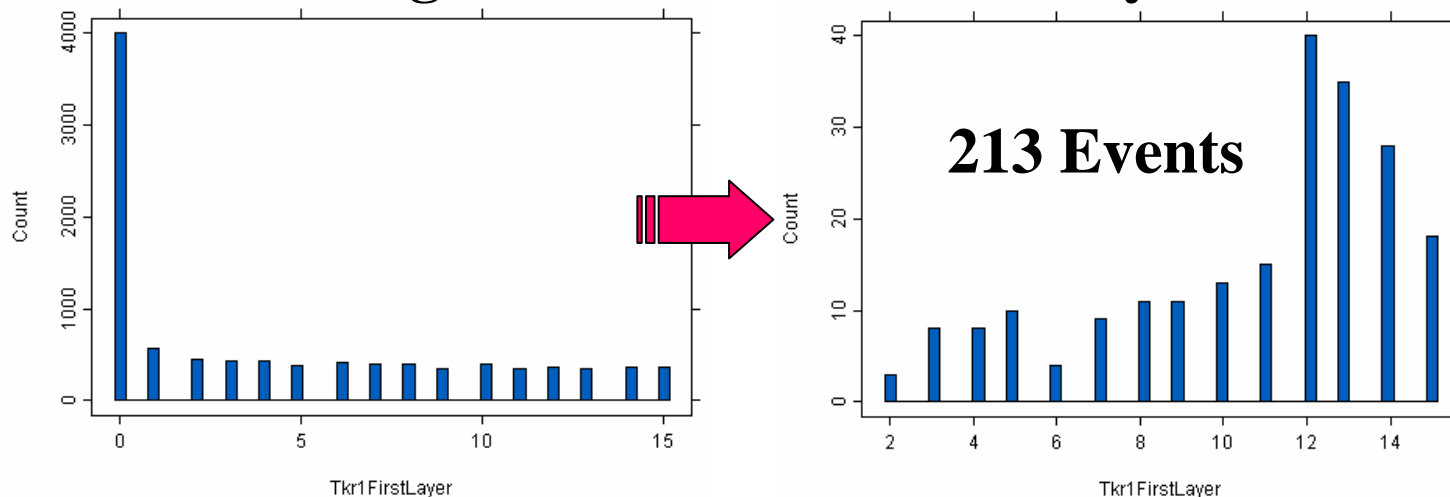


**Good γ events
point to
Calorimeter Energy**



Are the remaining events γ s?

Resulting Distributions of First Layers



Expect step from Thin-to-Thick = 1:4.3
Estimate Background to be ~ 14%