

# Prototype performances

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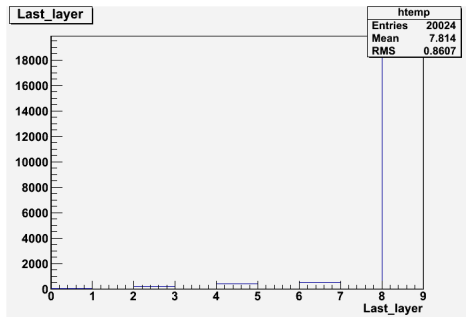
## 1 Soft update

- What's in SVN
- Desampler
- Radiation length
- Hit multilecity
- Other codes in svn
- Efficiencies
- Look out



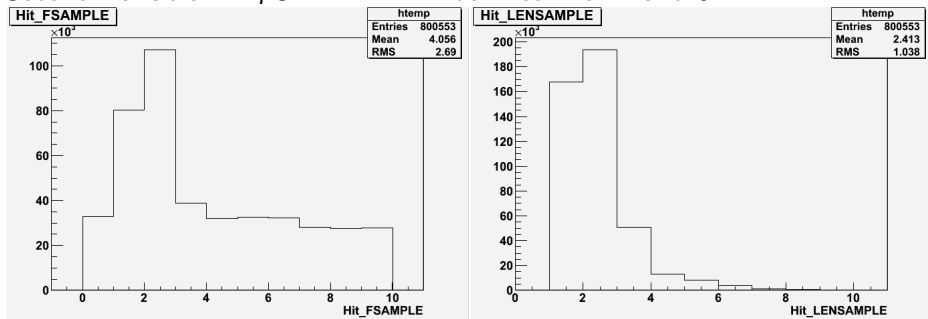
# What's in SVN

- 1 Desampler(will give details later).
- 2 Fitter. *Pol(2)*.
- 3 Switches to control: TDC, Jarek's clusteriser.
- 4 Calcute:  $\chi^2$  of fit, Continuity, First layers, Last layer, Fit Parameters + NDOF.



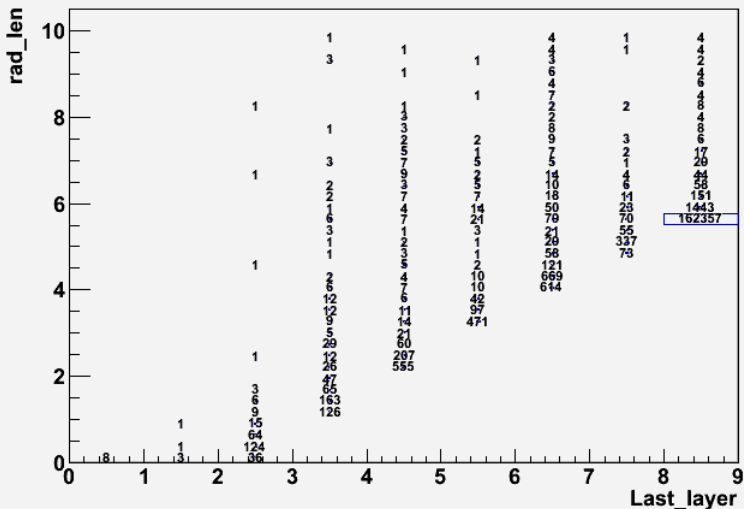
# Desampler

The BIRO takes measurements 10 times. Let's take an example: 0011001110 Now the desampler will split the hit into two hits. The first hit will have saved in variable 2 and the second one 6. ( $HIT_{L}ENSAMPLE$ ). Second variable  $HIT_{F}SAMPLE$  will be filled with 2 and 6.



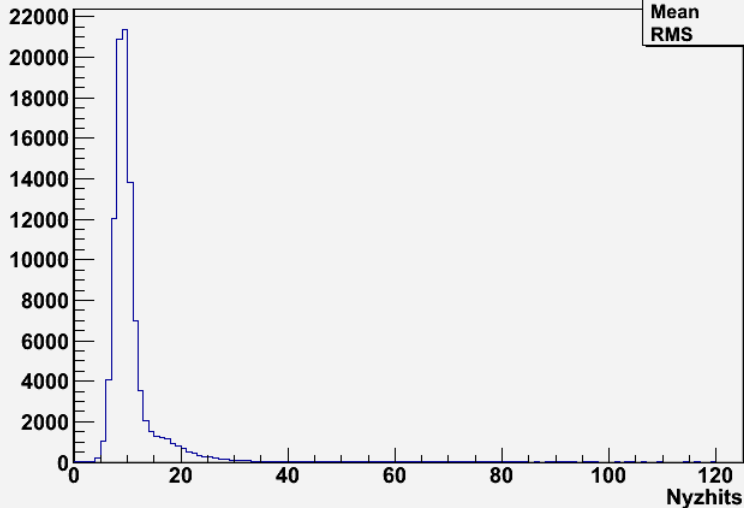
## Radiation length

```
rad_len>Last_layer {First_layer==0 && rad_len<10 && rad_len>-1}
```



# Hit multilecity

Nyzhits {s1>0&& s2>0&& sm>0&& c1>0&& c2==0}



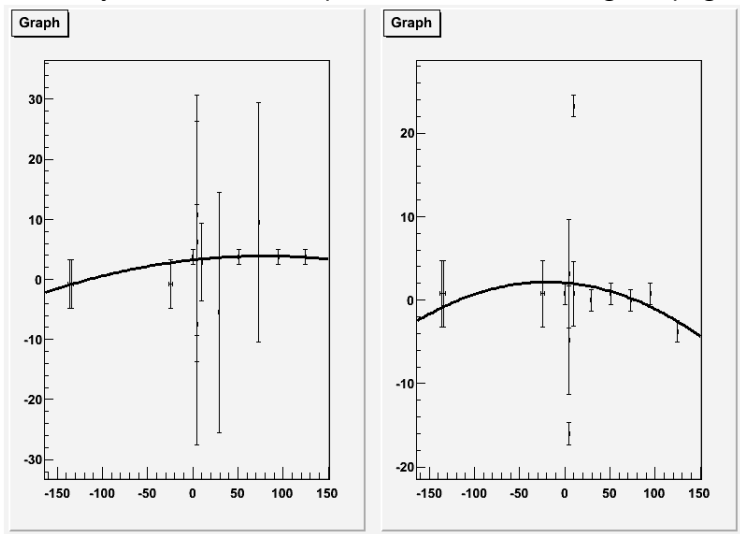
htemp

Entries	96771
Mean	10.07
RMS	4.826



# Other codes in svn

In SVN you can find a script that does the refitting. fit.png



# Efficiencies FULL STATISTICS

Efficiency X on layer 0 = 0.902936 +/- (naive) 0.000951668 +/- (correct) 0.000951676  
Efficiency Y on layer 0 = 0.960887 +/- (naive) 0.000623195 +/- (correct) 0.000623225  
Efficiency X on layer 1 = 0.859669 +/- (naive) 0.00111653 +/- (correct) 0.00111653  
Efficiency Y on layer 1 = 0.859669 +/- (naive) 0.00111653 +/- (correct) 0.00111653  
Efficiency X on layer 2 = 0.827769 +/- (naive) 0.00121377 +/- (correct) 0.00121377  
Efficiency Y on layer 2 = 0.827882 +/- (naive) 0.00121346 +/- (correct) 0.00121345  
Efficiency X on layer 3 = 0.962633 +/- (naive) 0.000609676 +/- (correct) 0.000609708  
Efficiency Y on layer 3 = 0.962633 +/- (naive) 0.000609676 +/- (correct) 0.000609708  
Efficiency X on layer 4 = 0.893253 +/- (naive) 0.000992641 +/- (correct) 0.000992647  
Efficiency Y on layer 4 = 0.772204 +/- (naive) 0.00134824 +/- (correct) 0.00134823  
Efficiency X on layer 5 = 0.943754 +/- (naive) 0.000740633 +/- (correct) 0.000740654  
Efficiency Y on layer 5 = 0.943754 +/- (naive) 0.000740633 +/- (correct) 0.000740654  
Efficiency X on layer 6 = 0.978103 +/- (naive) 0.000470449 +/- (correct) 0.000470496  
Efficiency Y on layer 6 = 0.974383 +/- (naive) 0.000507876 +/- (correct) 0.000507918  
Efficiency X on layer 7 = 0.470224 +/- (naive) 0.00160445 +/- (correct) 0.00160443  
Efficiency Y on layer 7 = 0.470224 +/- (naive) 0.00160445 +/- (correct) 0.00160443  
Efficiency X on layer 8 = 0.940891 +/- (naive) 0.000758093 +/- (correct) 0.000758113  
Efficiency Y on layer 8 = 0.975489 +/- (naive) 0.000497076 +/- (correct) 0.000497112



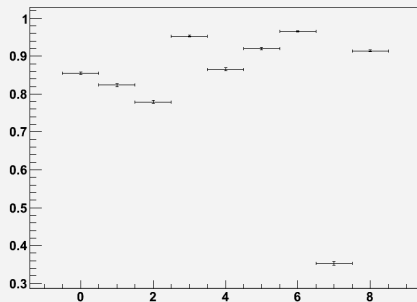


# Look out X view

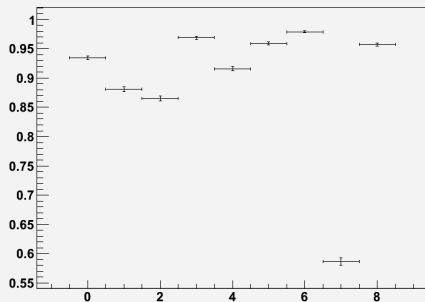
Cuts for all following plots:  $s1 > 0 + s2 > 0 + sm > 0 + c1 > 0 + c2 = 0$

Runs: 475, 517

Graph



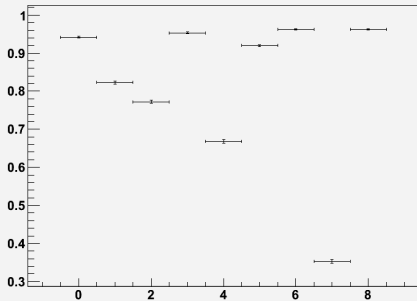
Graph



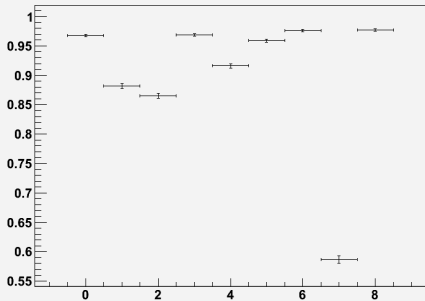
# Look out Y view

Runs: 475, 517

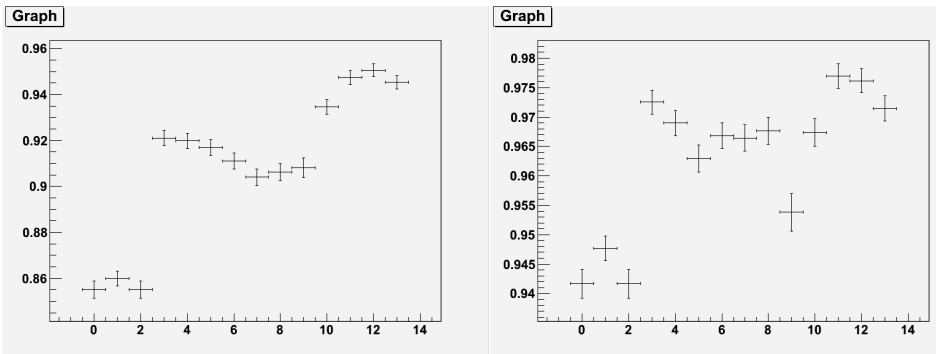
Graph



Graph



# Let's look closer, Layer 0

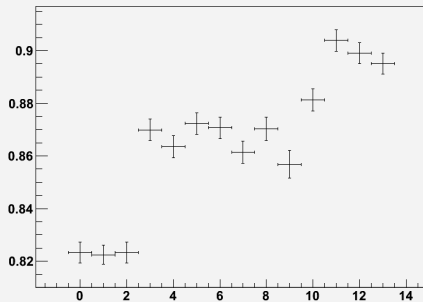


Layers:475,476,477,487,488,489,491,496,497,500,517,525,527,528

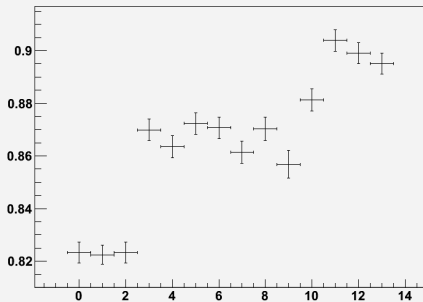


# Let's look closer, Layer 1

Graph



Graph

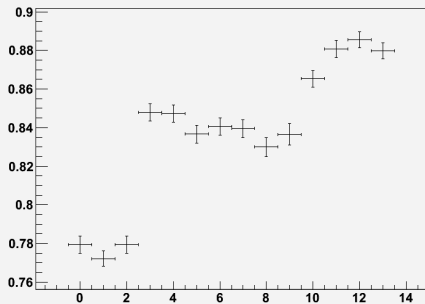


Layers:475,476,477,487,488,489,491,496,497,500,517,525,527,528

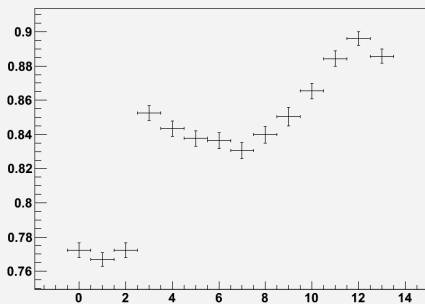


# Let's look closer, Layer 2

Graph



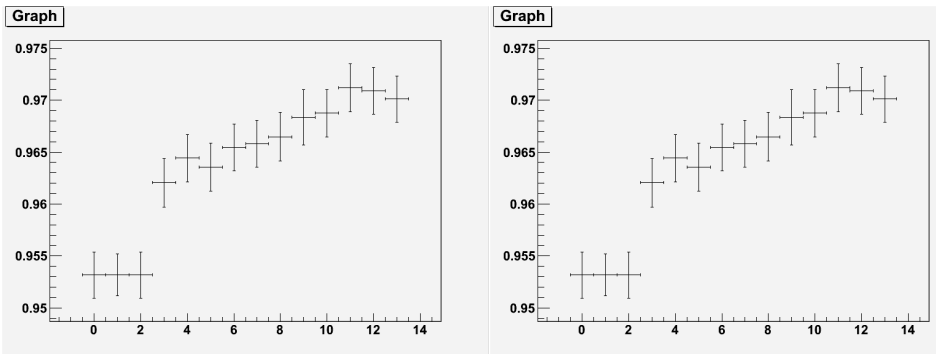
Graph



Layers:475,476,477,487,488,489,491,496,497,500,517,525,527,528



# Let's look closer, Layer 3

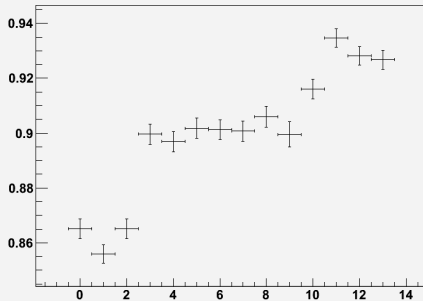


Layers:475,476,477,487,488,489,491,496,497,500,517,525,527,528

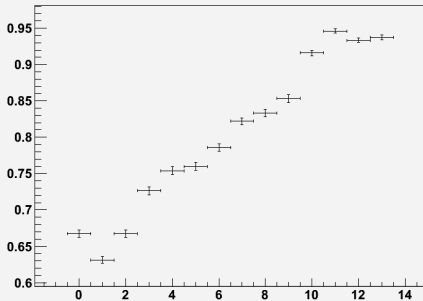


# Let's look closer, Layer 4

Graph



Graph

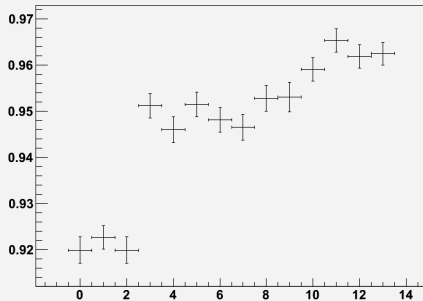


Layers:475,476,477,487,488,489,491,496,497,500,517,525,527,528

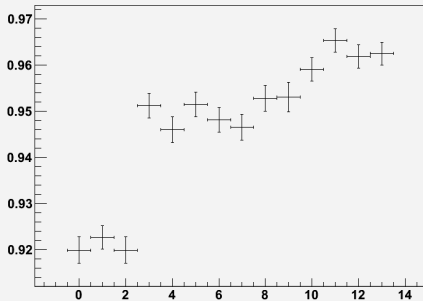


# Let's look closer, Layer 5

Graph



Graph



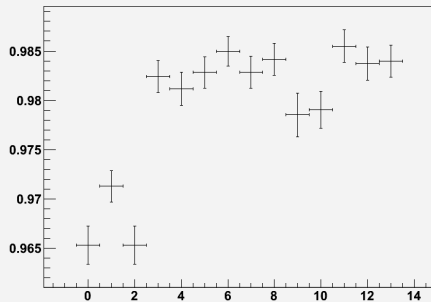
Layers:475,476,477,487,488,489,491,496,497,500,517,525,527,528



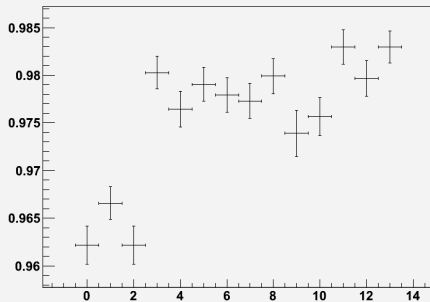


# Let's look closer, Layer 6

Graph



Graph

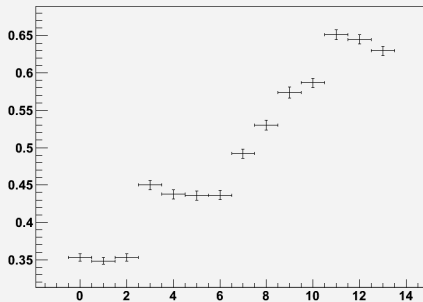


Layers:475,476,477,487,488,489,491,496,497,500,517,525,527,528

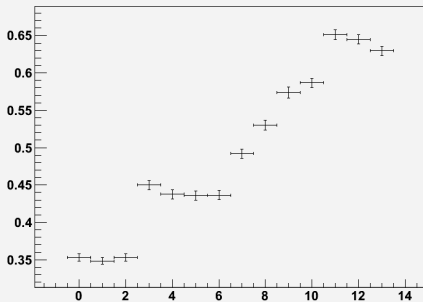


# Let's look closer, Layer 7

Graph



Graph

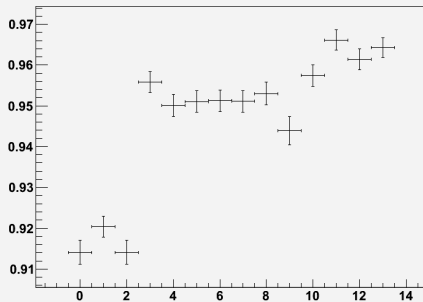


Layers:475,476,477,487,488,489,491,496,497,500,517,525,527,528

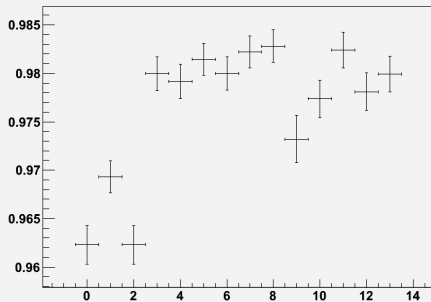


# Let's look closer, Layer 8

Graph



Graph



Layers:475,476,477,487,488,489,491,496,497,500,517,525,527,528

