

psi46 x-ray trimming attempts

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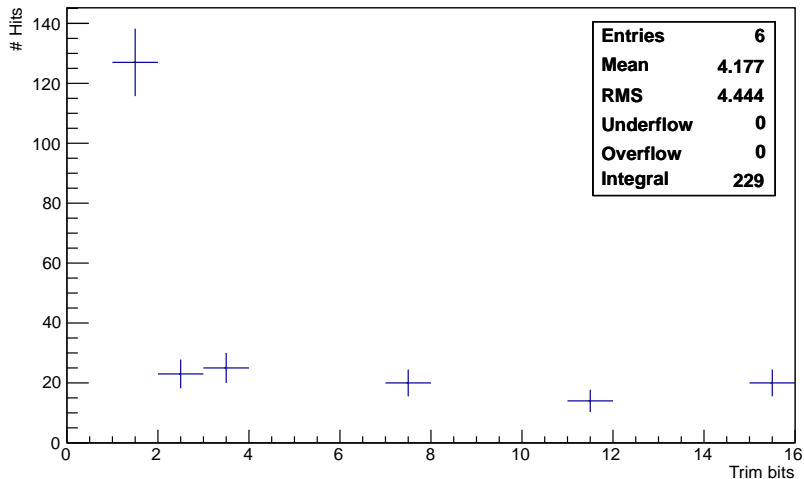
5. December 2011

Algorithm 1

1. Set $V_{trim} = 130$
2. Set Trim bits = 15
3. Search and set highest possible V_cThr (here: 119) (– safety margin)
4. Lower the trim bits of pixels until they (each) reach breakdown, one row at a time. Fix lowest trimbits (+ safety margin).

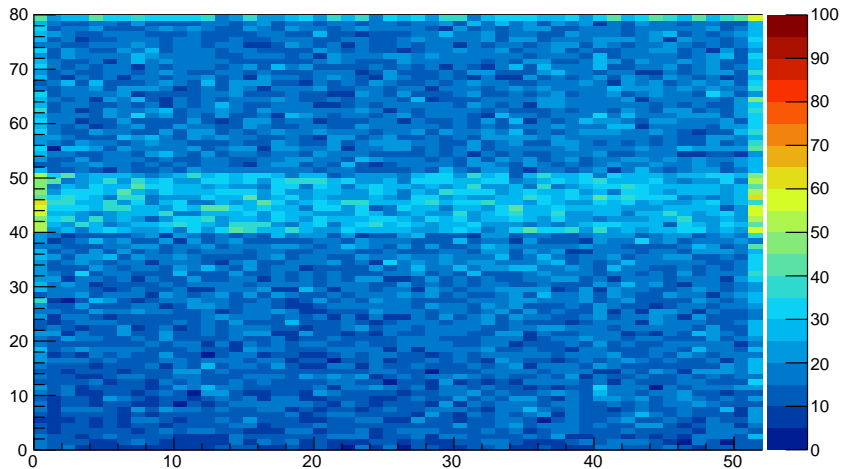
Algorithm 1

Trim bit scan, single pixel hits



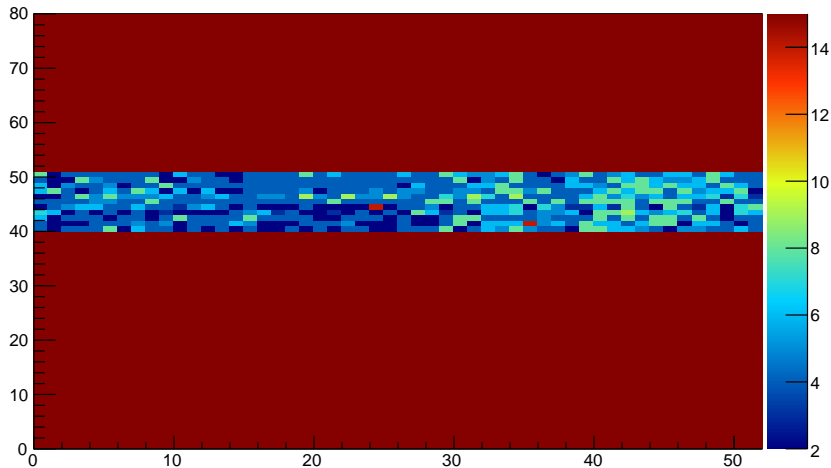
Algorithm 1

Pixelmap trimmed



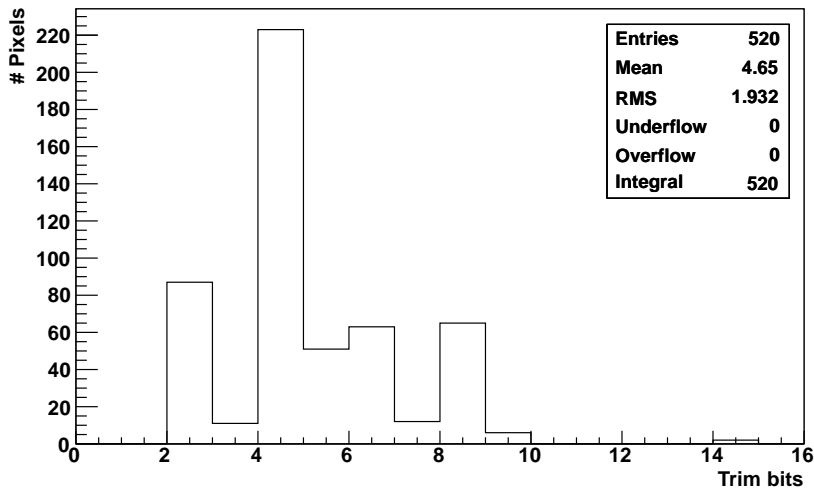
Algorithm 1

TrimMap_C0



Algorithm 1

Trim bit distribution

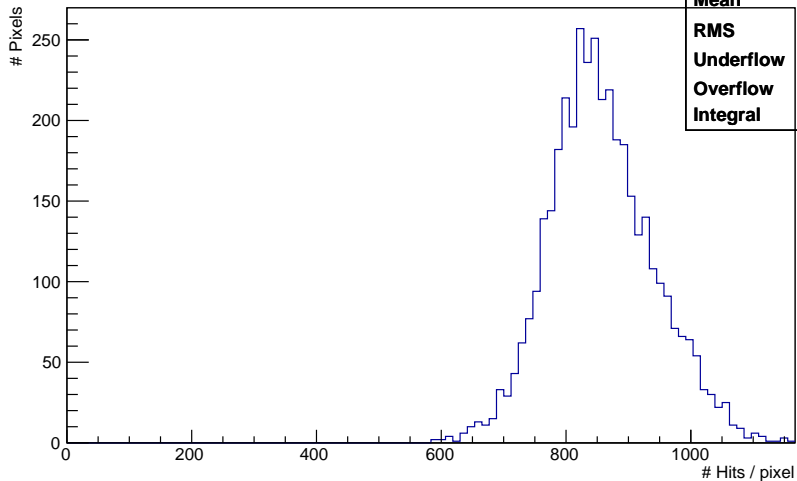


Algorithm 2

1. Set $V_{trim} = 130$
2. Set trim bits = 0
3. Search highest possible threshold
4. Take 10 % of pixels with most hits, increase their trim bit by 1
5. Goto 3

Algorithm 2

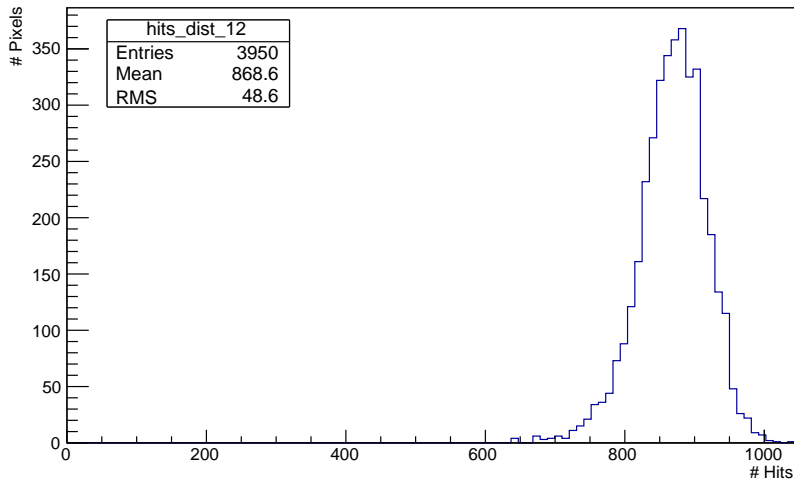
Hits distribution (iteration 0)



Entries	3950
Mean	856.7
RMS	83.46
Underflow	0
Overflow	0
Integral	3950

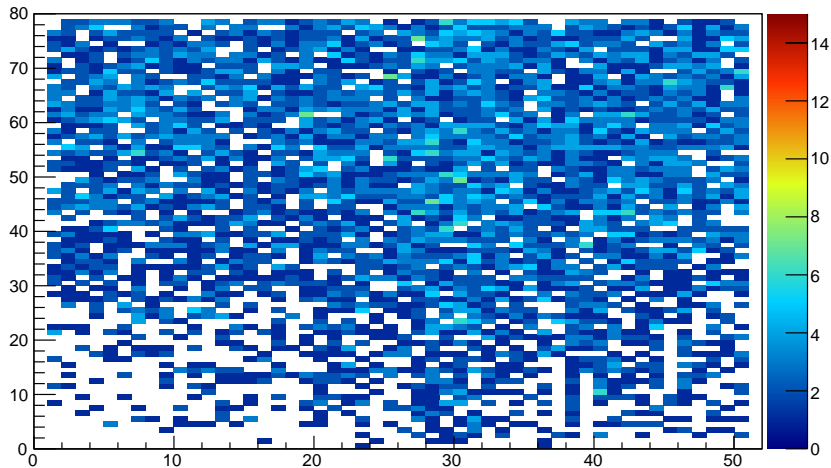
Algorithm 2

Hits distribution (iteration 12)



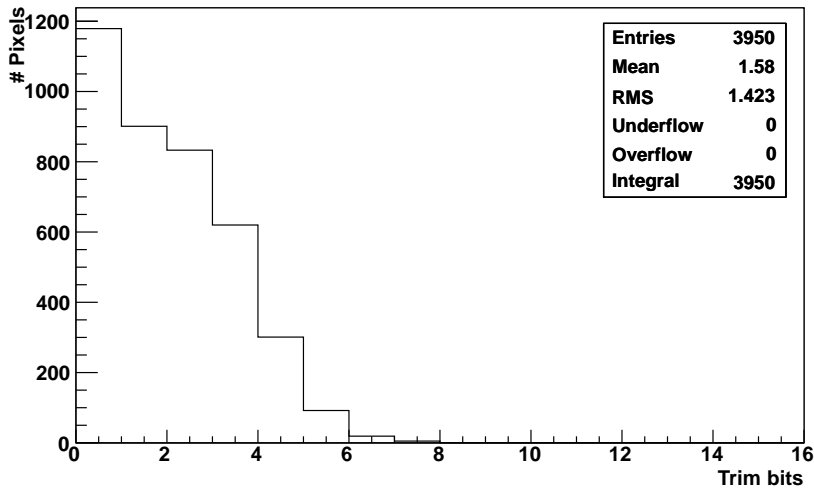
Algorithm 2

Trim bits



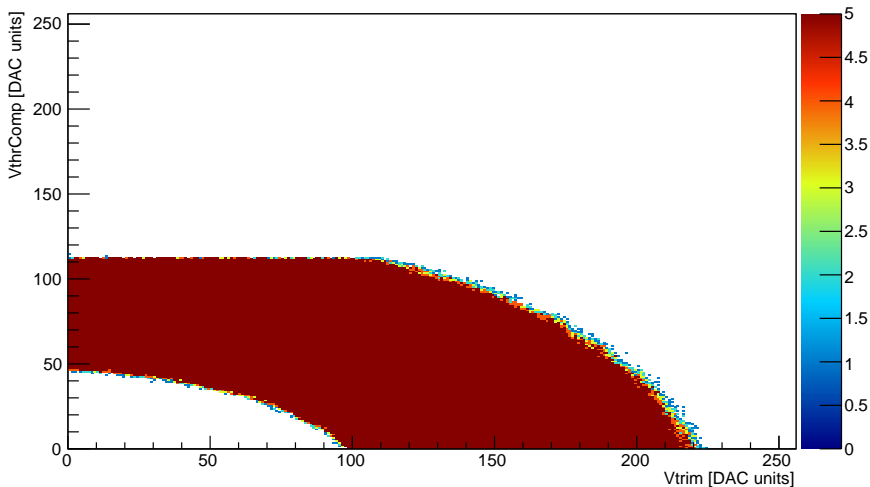
Algorithm 2

Trim bit distribution



Other observations

VthrCompVtrim_c5r5_C0



Other observations

