Laser scans

Feb 25th-29th
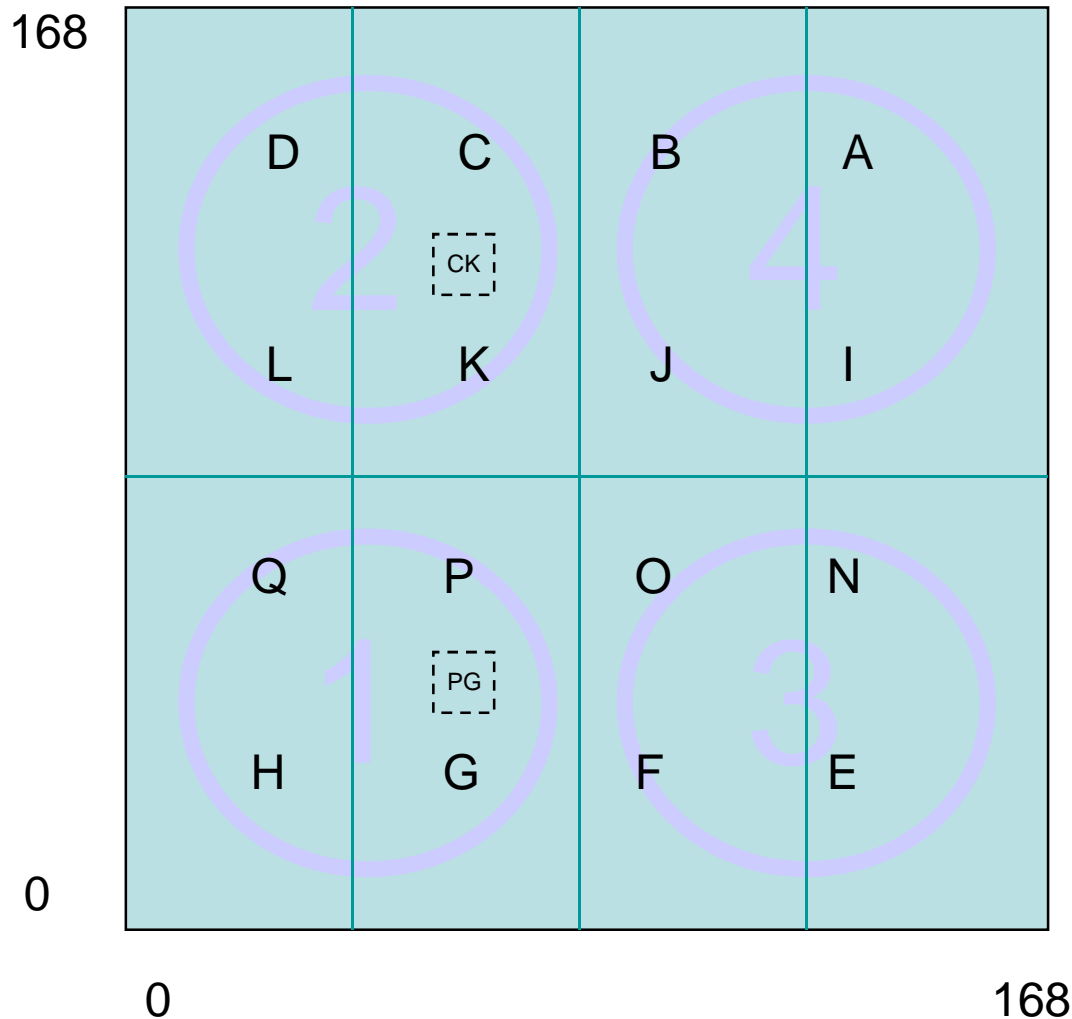
Jamie & Marcel

Orientation: Laser Targets

ALL POSITIONS ARE APPROXIMATE!!

Region 0   Region 1   Region 2   Region 3

168

D	C	B	A
CK			
L	K	J	I

Event display:

Q	P	O	N
PG			
H	G	F	E

0

0   168

Threshold scans
CM=3072
Span = 1024
Steps = 256

Laser setup
Focus = 50x
Shutter = 25x25
Intensity = 30%
Rate = 25Hz

Region 0 (D,L,Q,H)
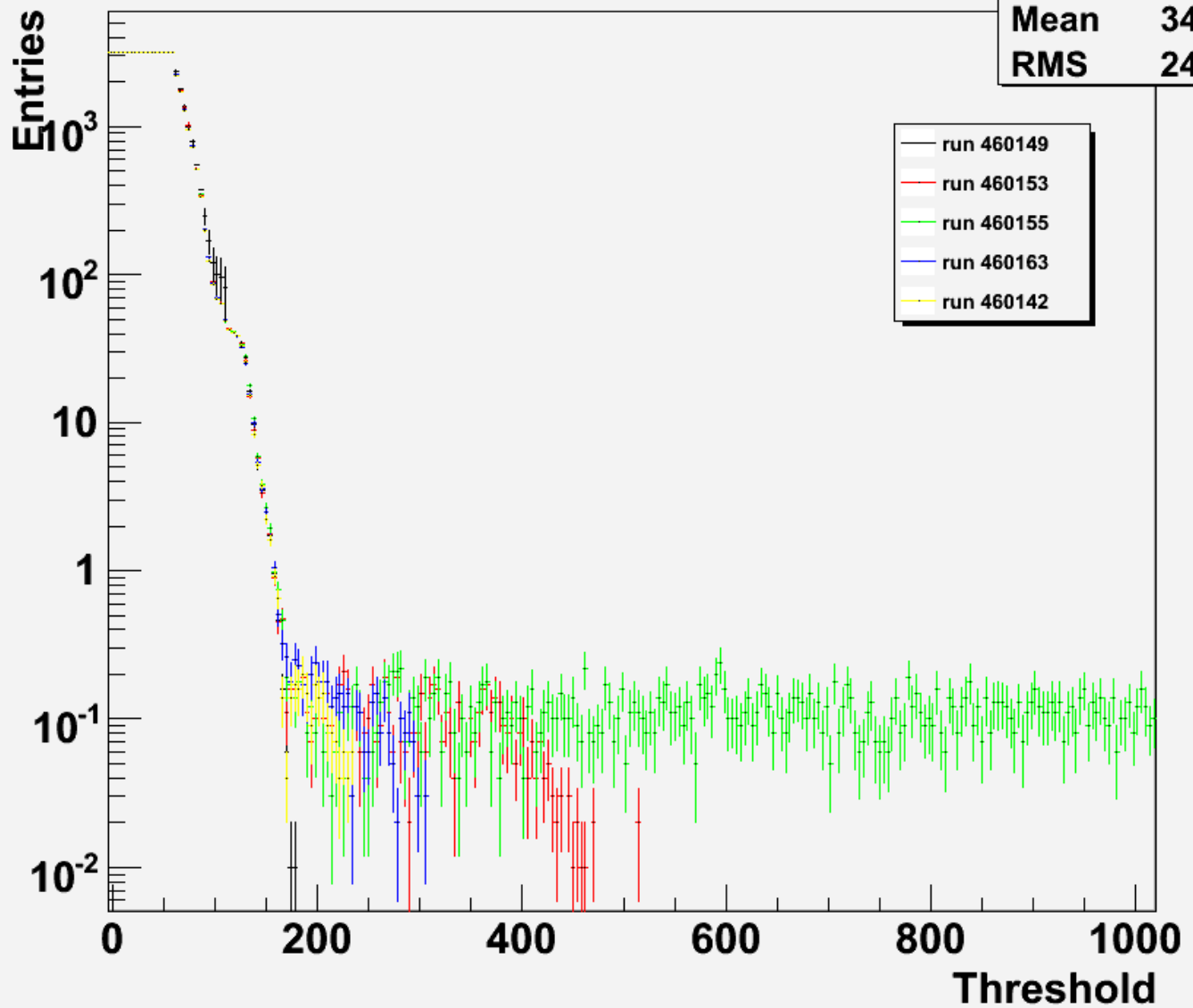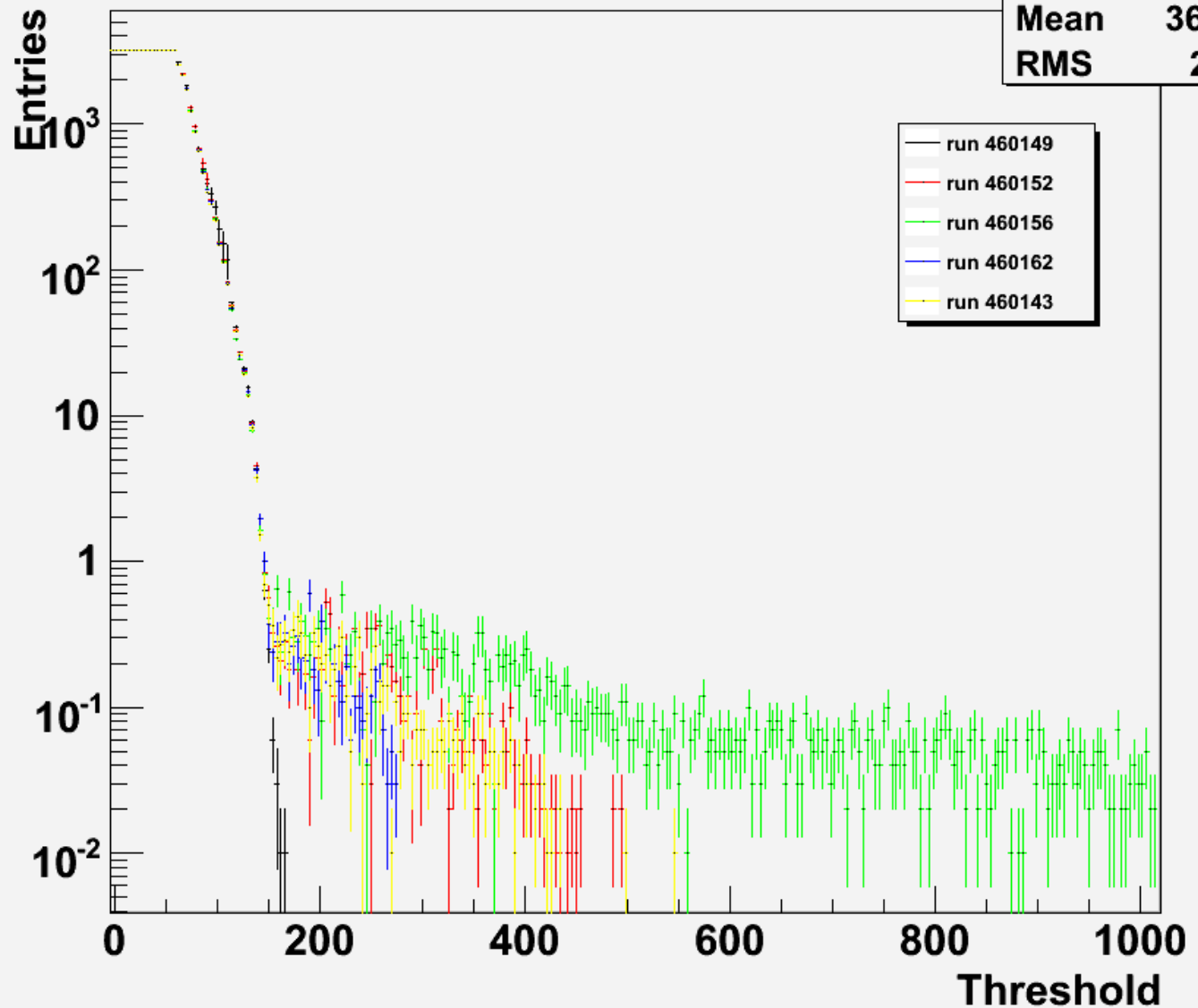
Region 1 (C,K,P,G)

Run 460149, Region 1, Number of words vs Threshold

Region1LinProfile
Entries 256
Mean 36.64
RMS 25.1

run 460149
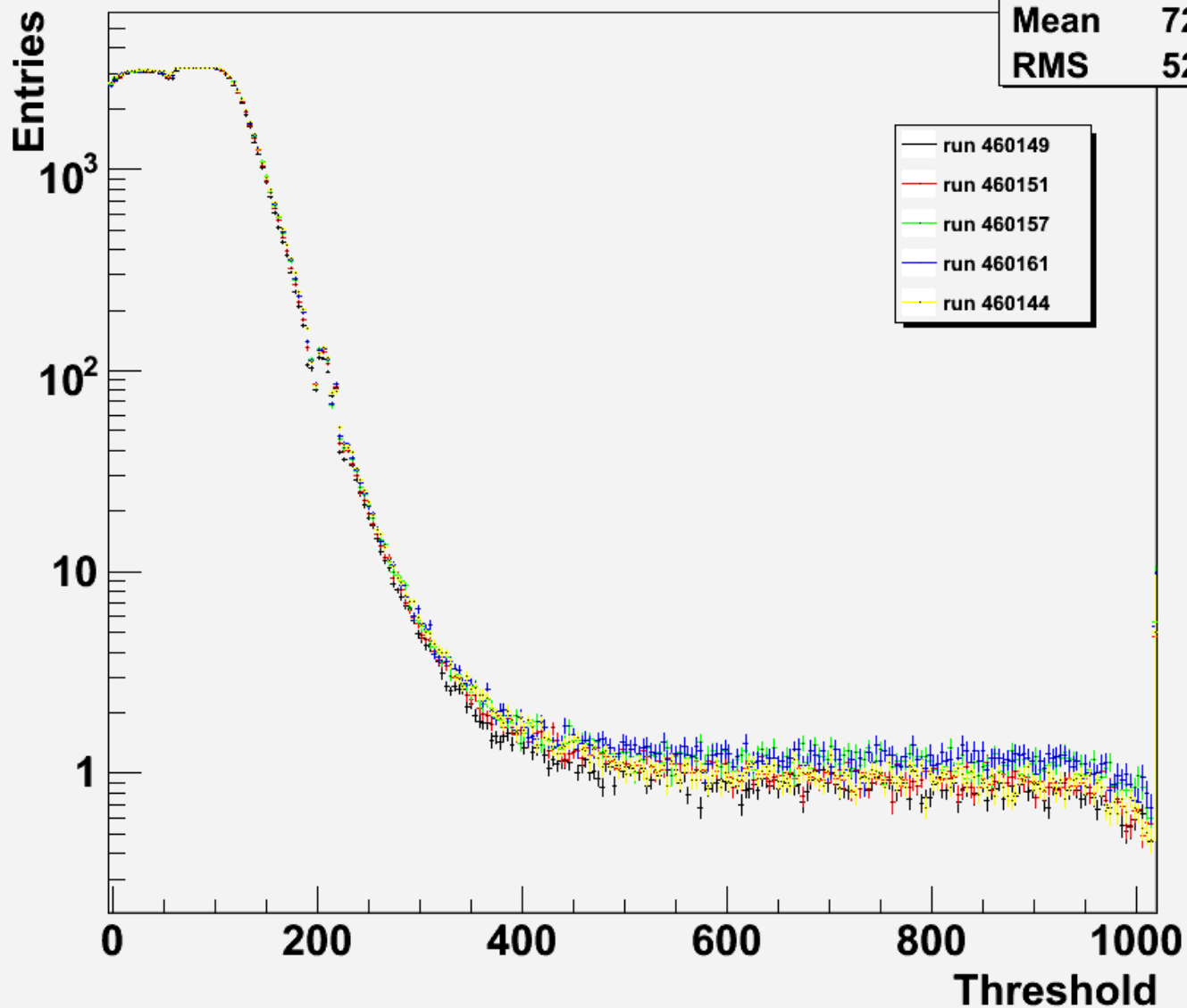run 460152
run 460156
run 460162
run 460143

C
K
P
G

Region 2 (B,J,O,F)

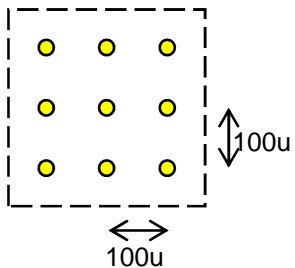# Region 3 (A,I,N,E)

Run 460149, Region 3, Number of words vs Threshold
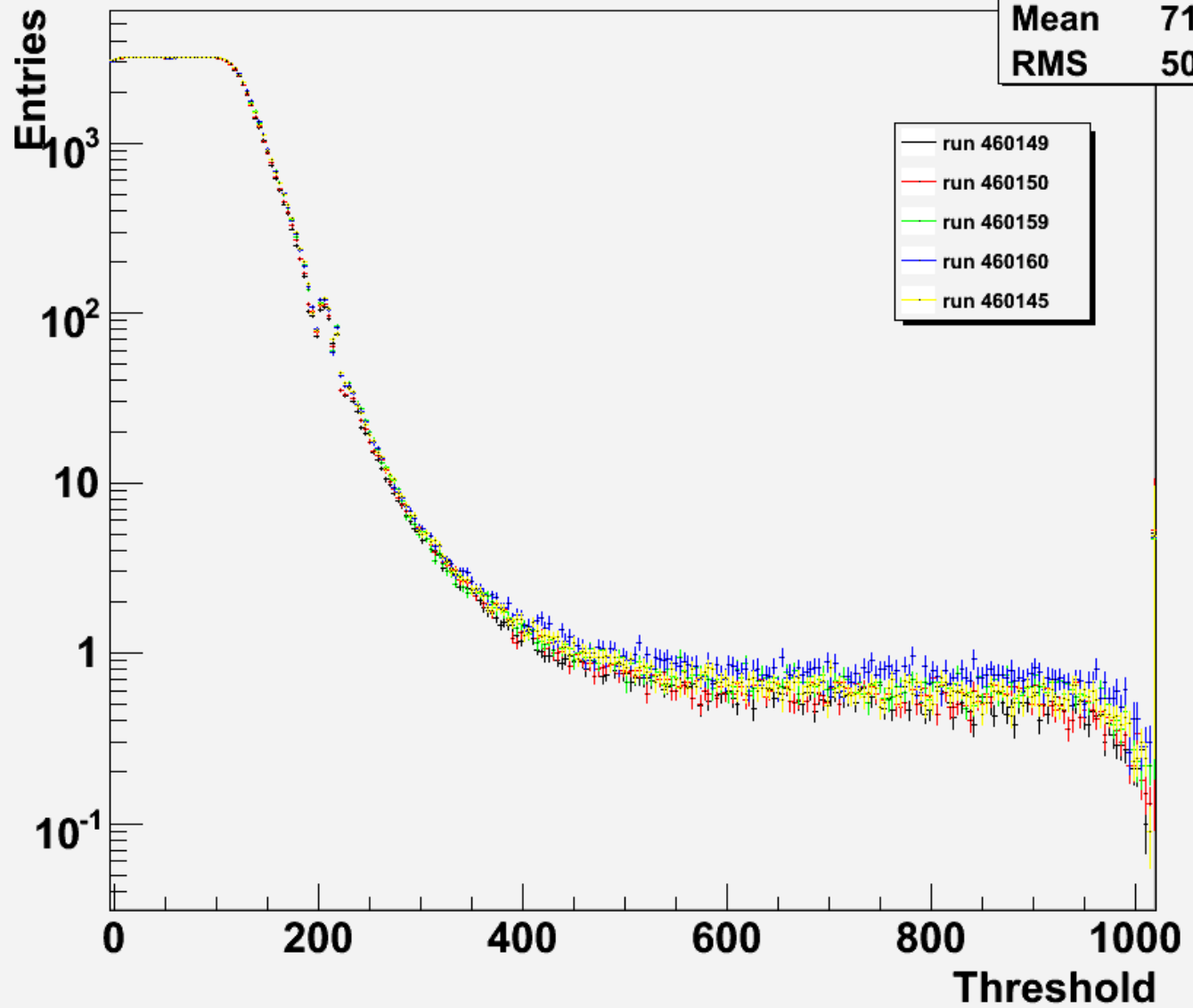
Region PG (all)

Run 460165, Region 1, Number of words vs Threshold

Region1LinProfile	
Entries	256
Mean	36.07
RMS	24.68

run 460165
run 460166
run 460167
run 460168
run 460169
run 460170
run 460171
run 460172
run 460173
run 460174
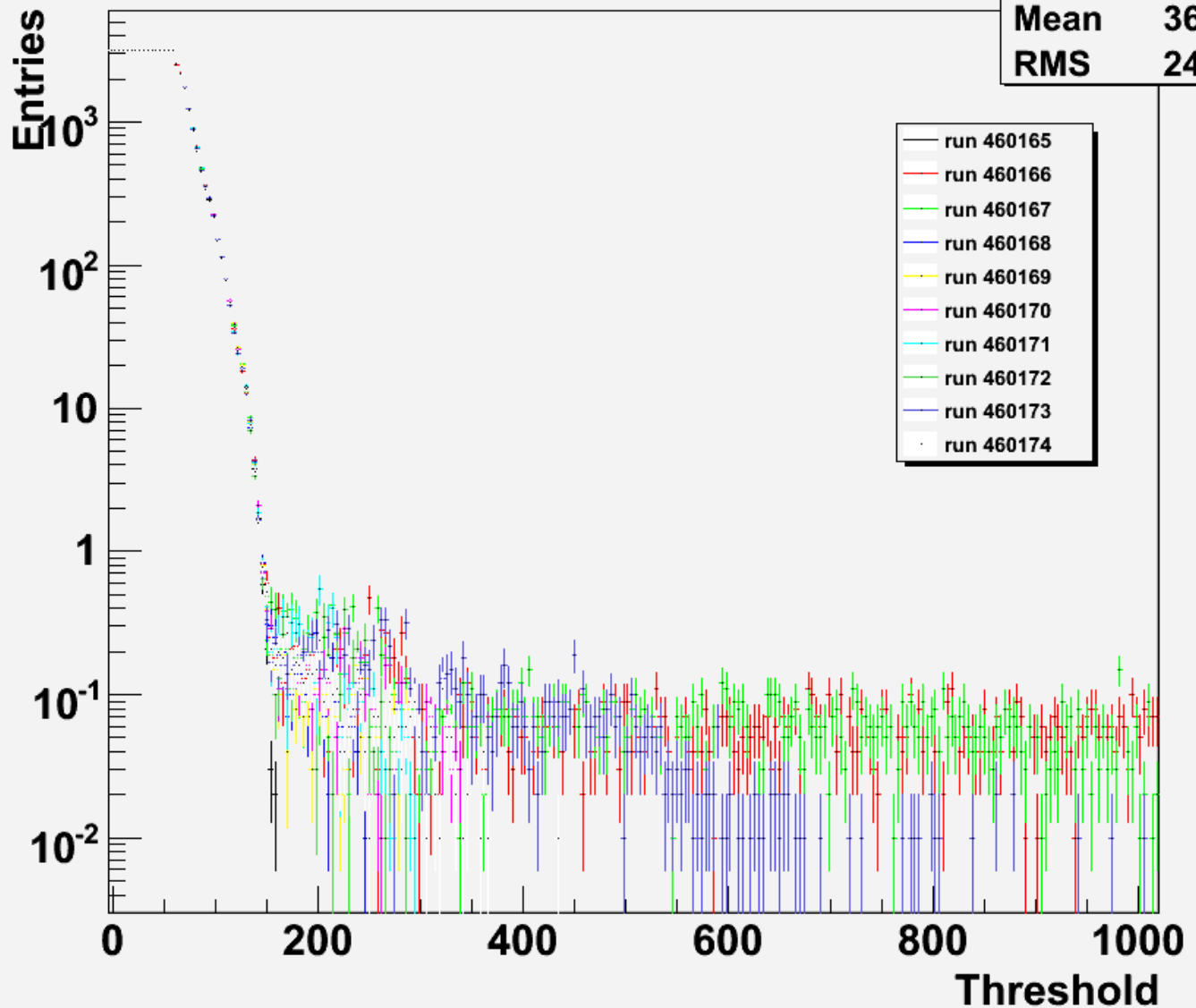
Region PG (selection)

Run 460165, Region 1, Number of words vs Threshold

Region1LinProfile	
Entries	256
Mean	36.07
RMS	24.68

run 460165
run 460168
run 460169
run 460170
run 460171
run 460172
run 460174
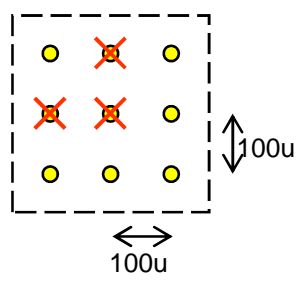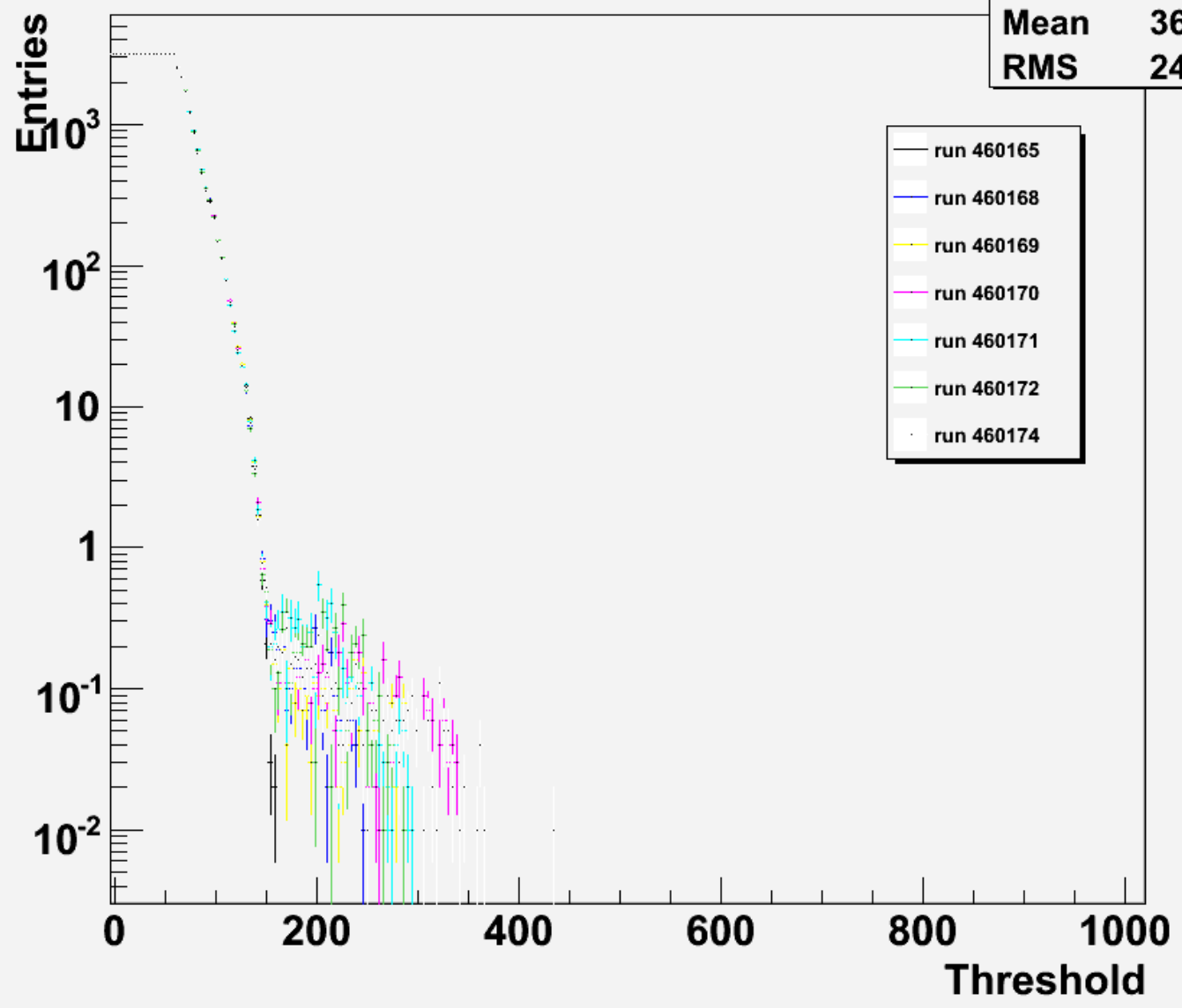
Region CK (all)

Run 460175, Region 1, Number of words vs Threshold

Region1LinProfile	
Entries	256
Mean	36.05
RMS	24.65

- run 460175
- run 460176
- run 460177
- run 460178
- run 460179
- run 460180
- run 460181
- run 460182
- run 460183
- run 460184

Region CK (selection)

Life from the samplers

Lamp saturates
pixels in small
~8x8 pxl region
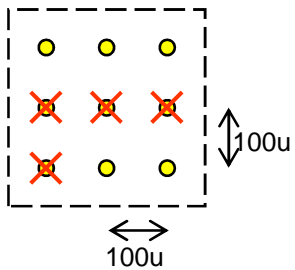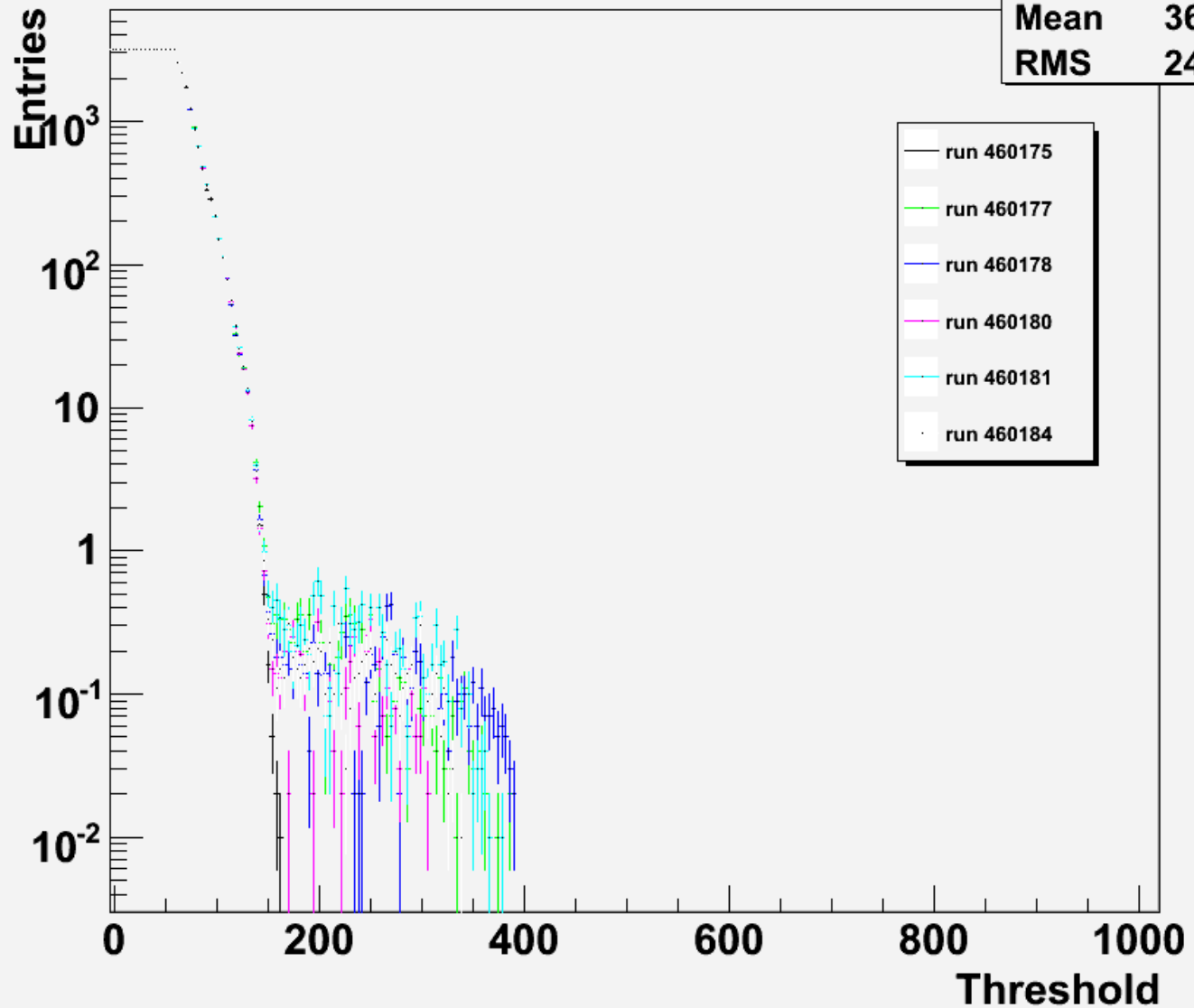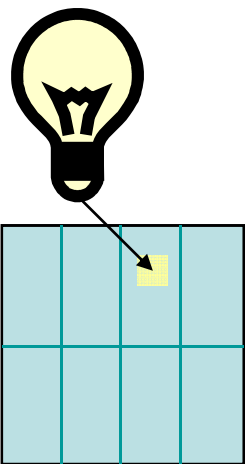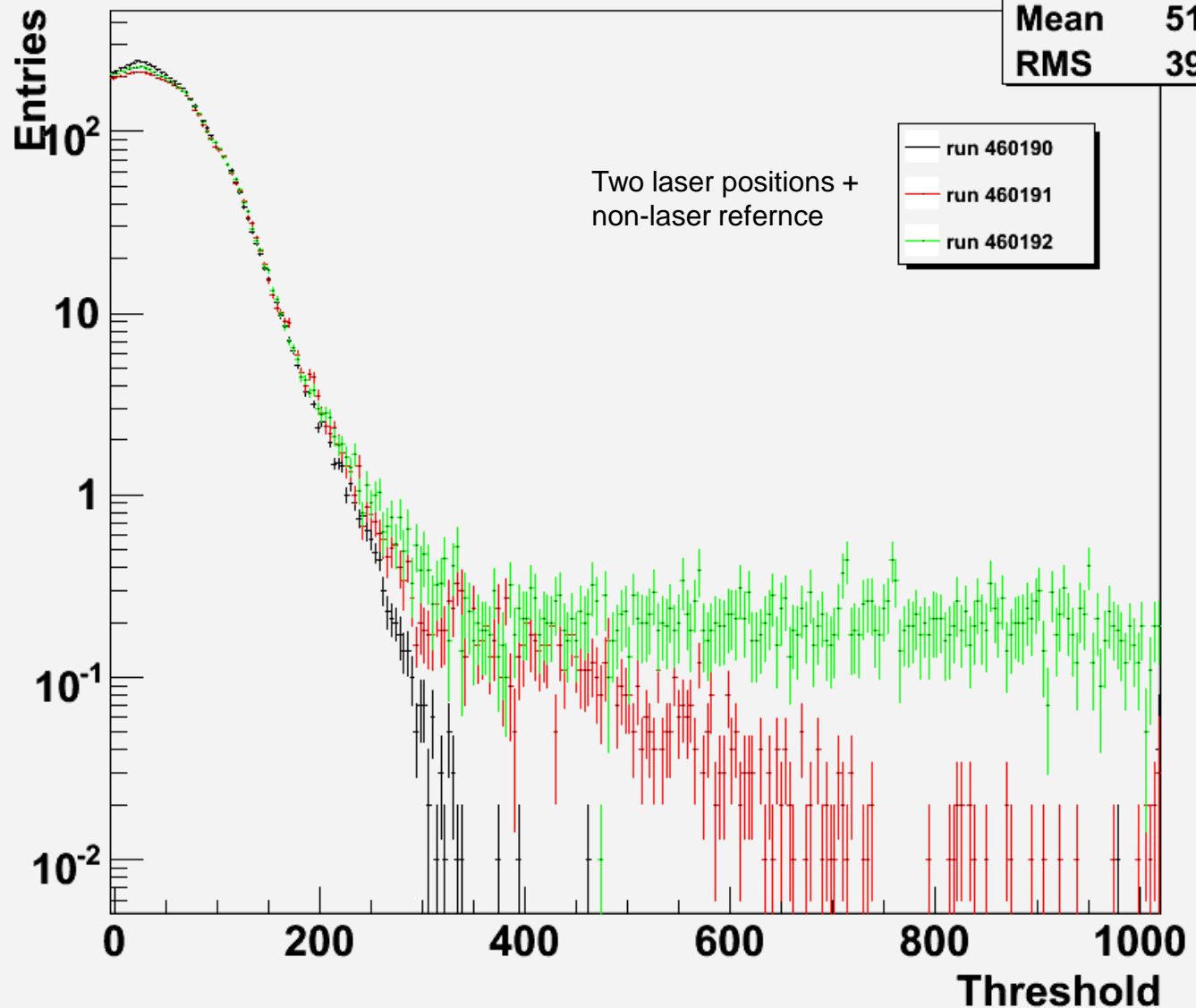

Run 460187, Region 2, Number of words vs Threshold

Region2LinProfile
Entries 256
Mean 193.1
RMS 247.2

run 460187
run 460186
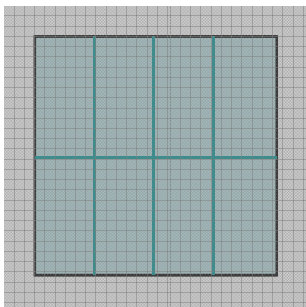
Entries

Threshold

Life from the samplers

Mask eliminates
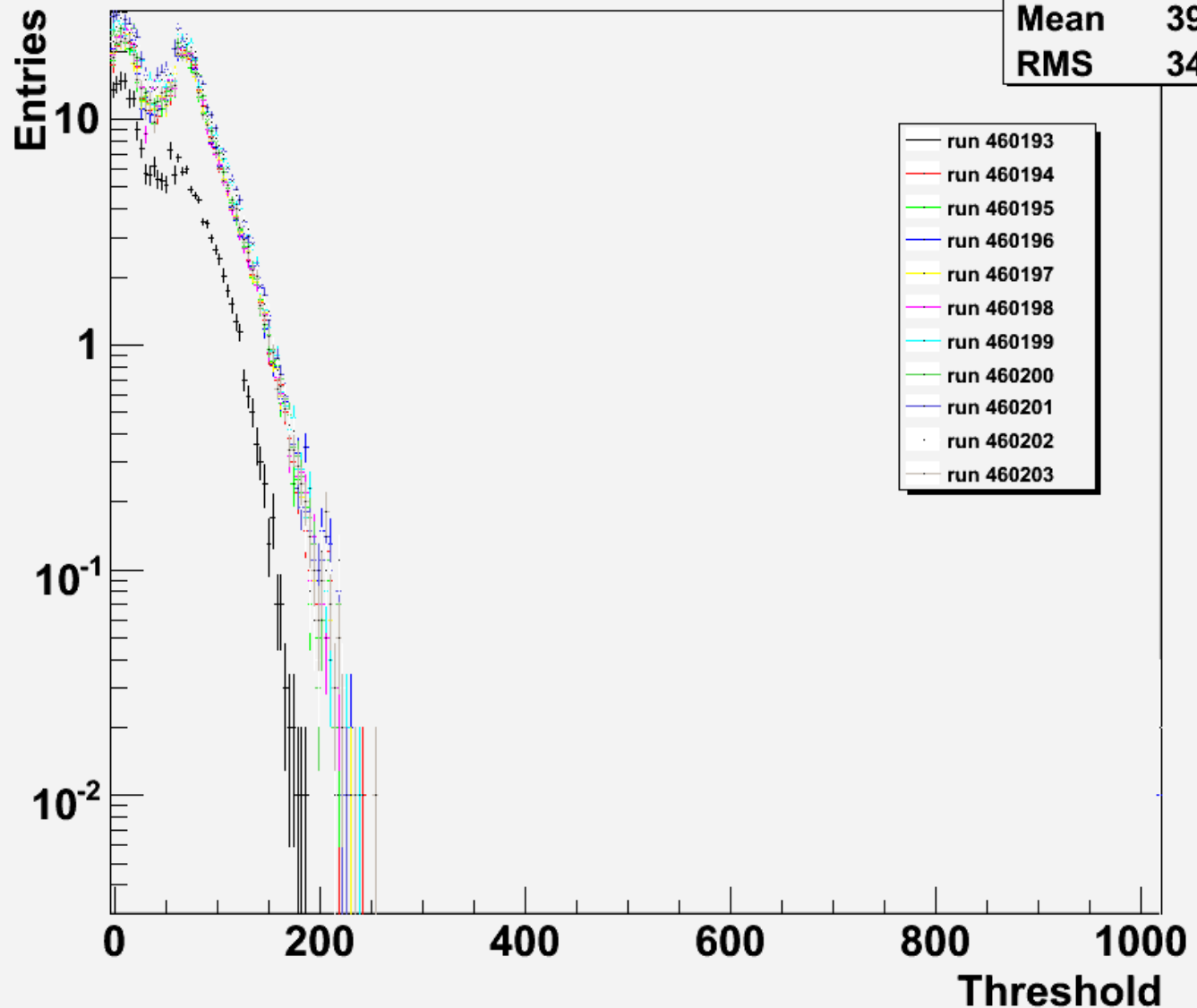all hits except a
10x10 region
where the laser is
known to be
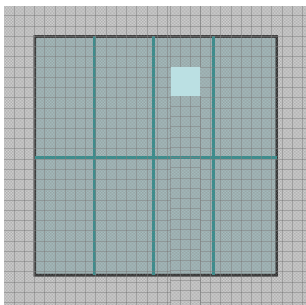
Observation when masking pixels

A few pixels in region2 showed hits despite being masked… was always the same ones

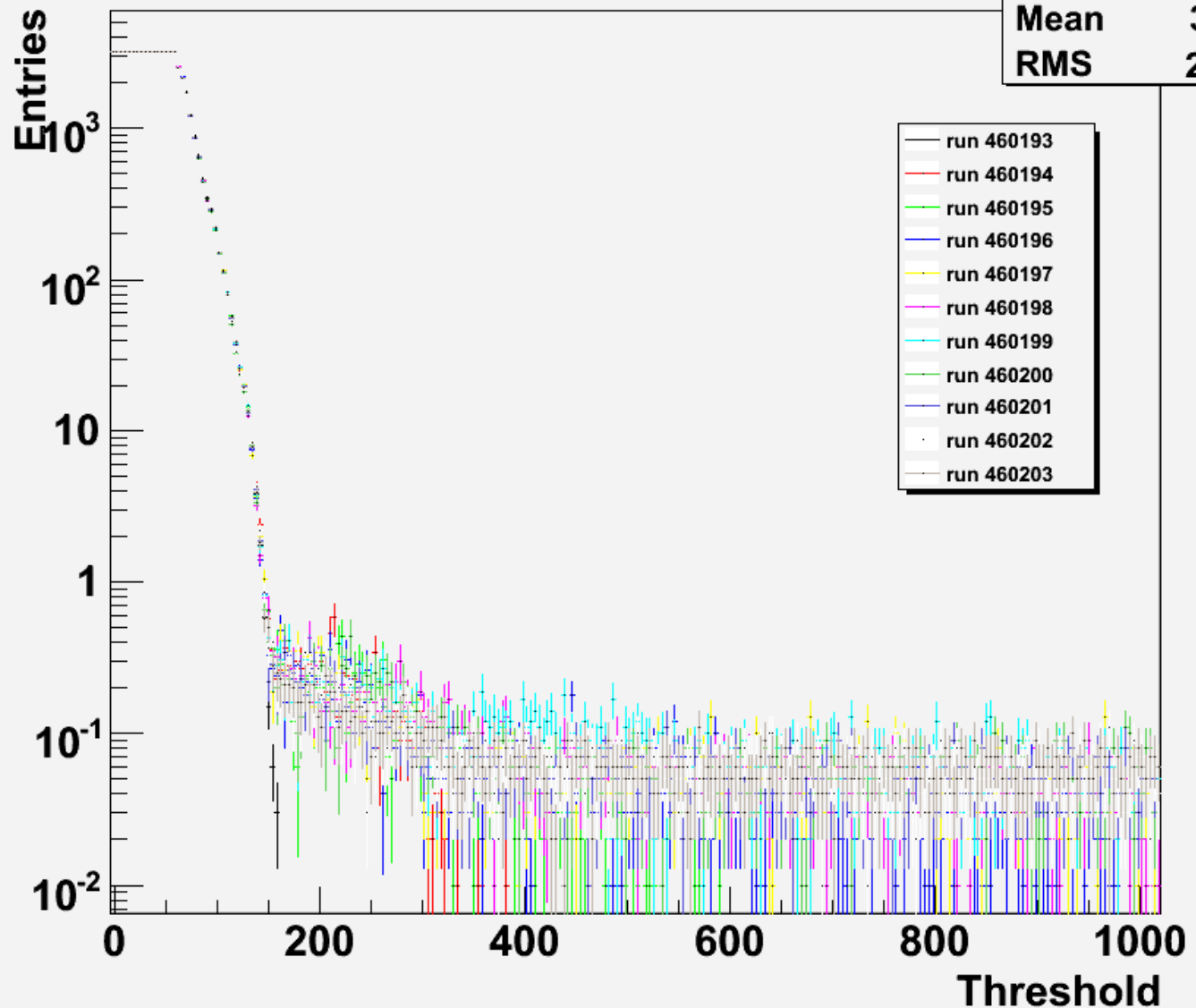Should probably make a list of bad pixels with a full mask and apply in post-processing?

A fine scan of shaper pixels

(samplers were masked during these runs)

Laser fired at points in a line with 10 micron separation

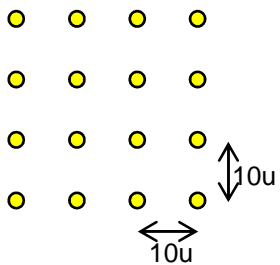# A fine scan of shaper pixels

(samplers were masked during these runs)

Laser fired at points in a region with 10 micron separation