

Possible Source Scan Cd109 Criteria

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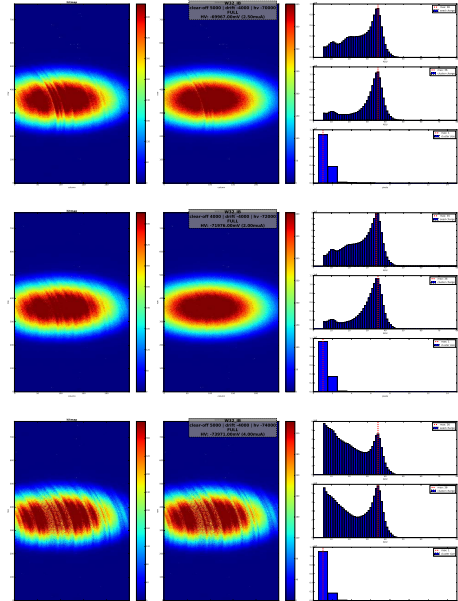


Possible Criteria

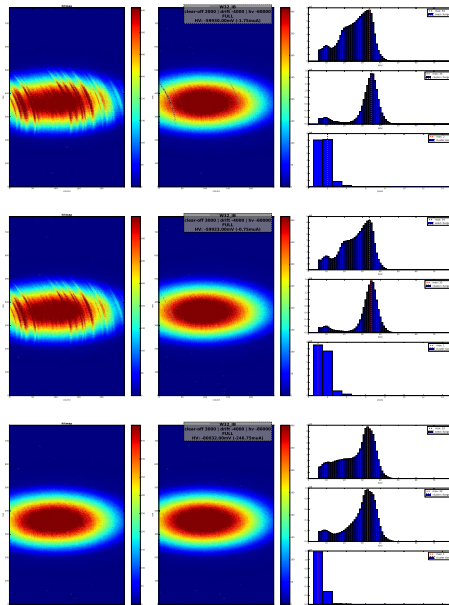
- peak-valley ratio in cluster and seed charge plot
- distribution of cluster size
- Gauss fit: σ and quality of fit

- peak: ADU of signal maximum
- valley: $2/3$ of ADU peak (or peak - 3σ)

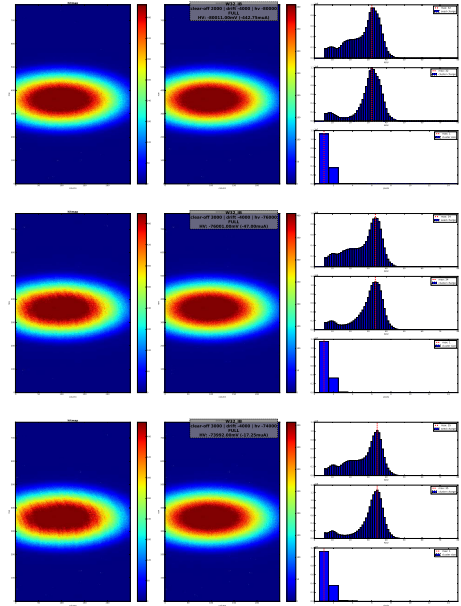
$\frac{\# \text{ hits at peak}}{\# \text{ hits at valley}}$ should be max



- $1 > 2 > 3 > 4$
(plot 1)
- 2 between [35-55]% of 1
(plot 1, 2, 3)
- $3 < [5-7]\%$ of 1
(plot 2)
- (could also be referenced to total)



- for Cd109 source: Gauss fit
- minimize σ
- find best quality of Gauss fit (kurtosis, skewness, ...)



A good one would be:

