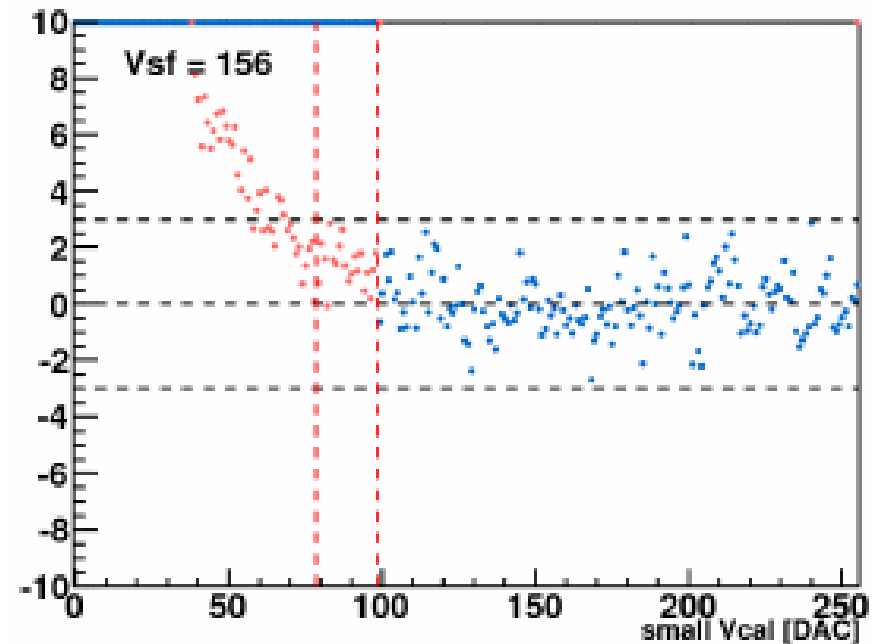
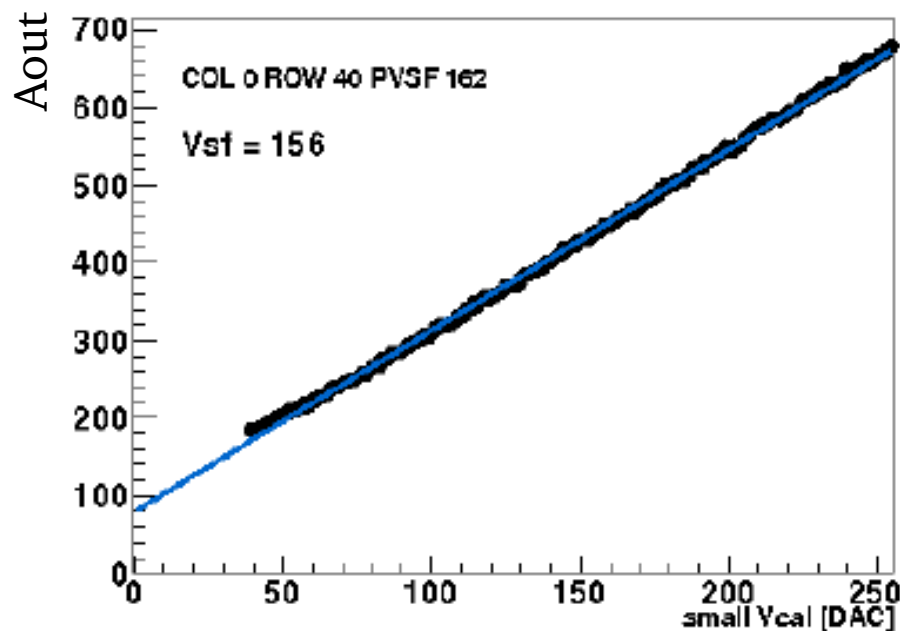


CALibratOR

Habib / Pitzl / Petrukhin

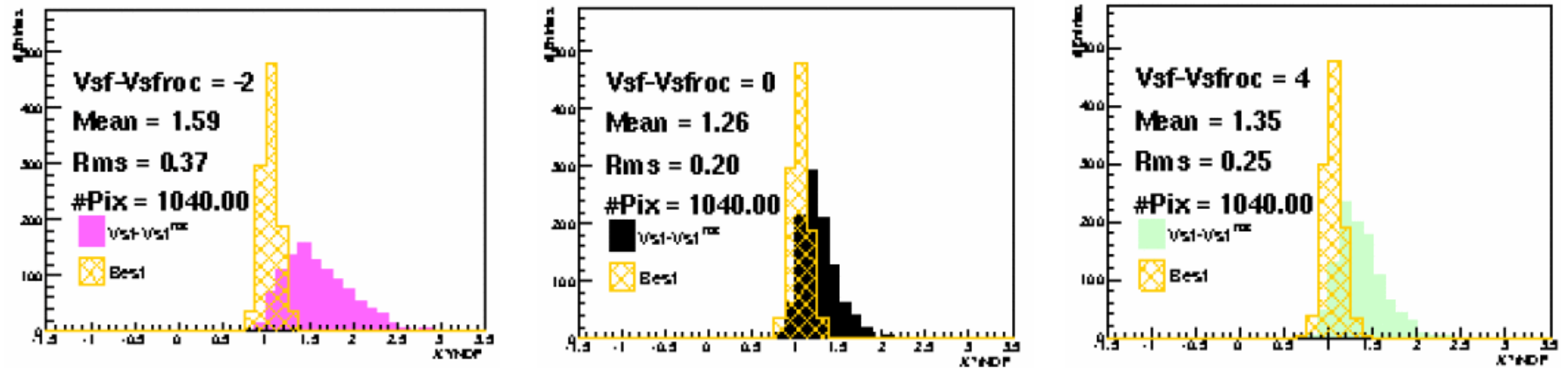
We've assembled two FOMs to tune in order to get the best parameters for the chip:

- χ^2/dof over full Vcal range
- Number Lost Points

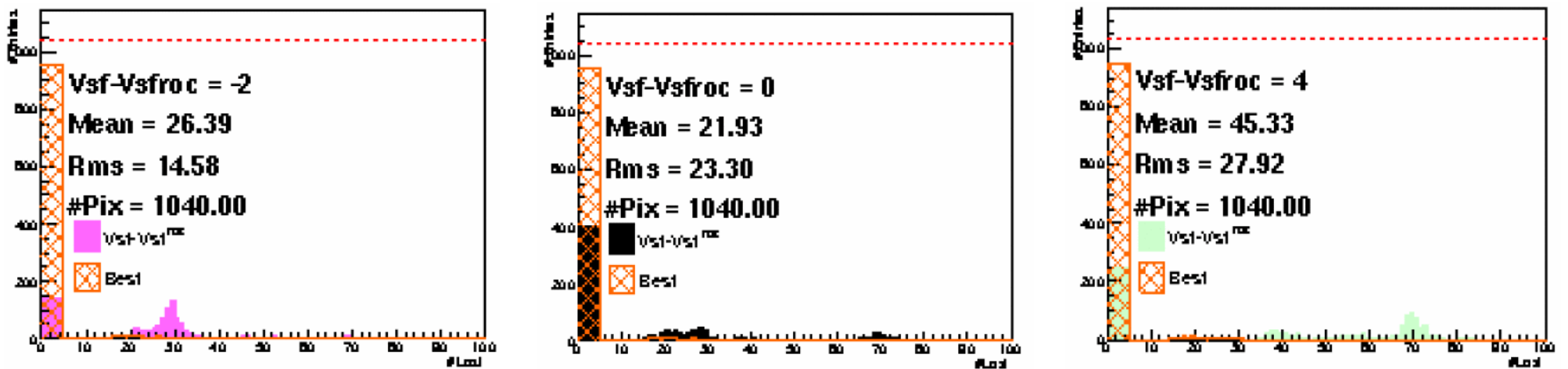


red shows points lost where there are 16 consecutive pulls of the same sign.

best chi2/dof scan over chip [1040 pix] :



least lost points scan over chip [1040 pix] :



Calor C++ Class

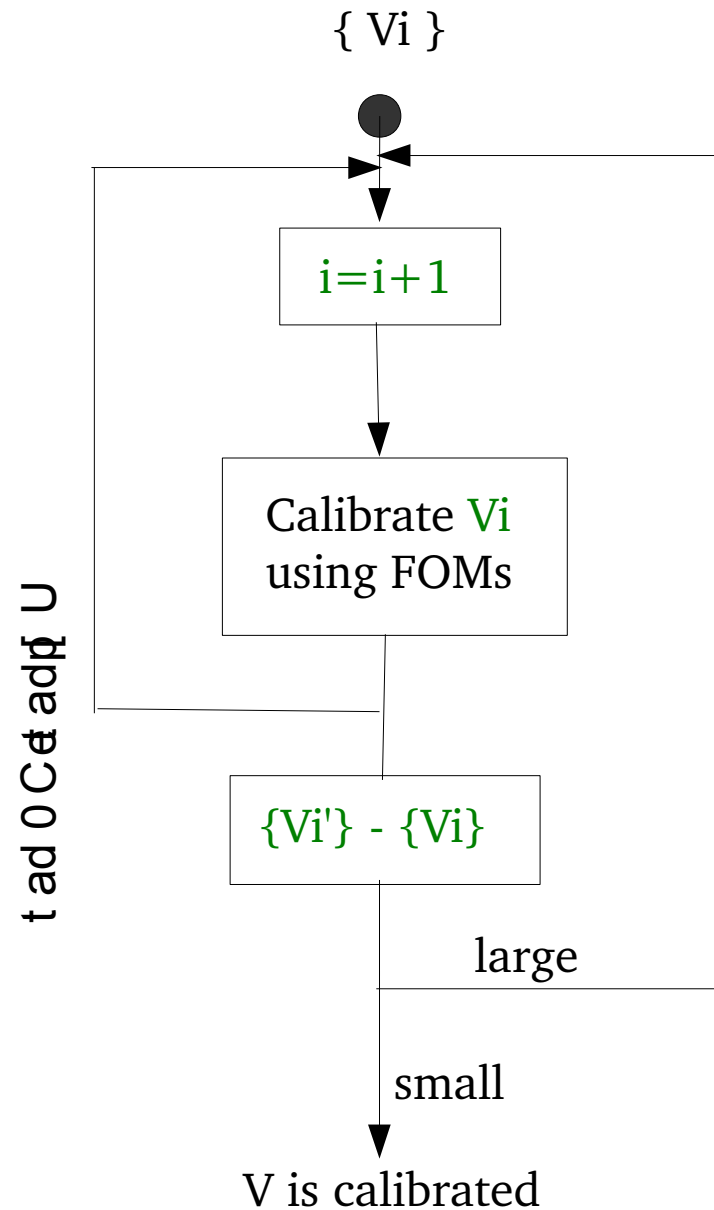
dacParameters_C0.dat

```

1      Vdig      6
2      Vana 150
3      Vsf 156
4      Vcomp 10
5 Vleak_comp 0
6      VrgPr 0
7      VwllPr 35
.
.
.
27 RangeTemp 0
    
```

Starting Value of V can also be determine from the Ridge as for Vsf.

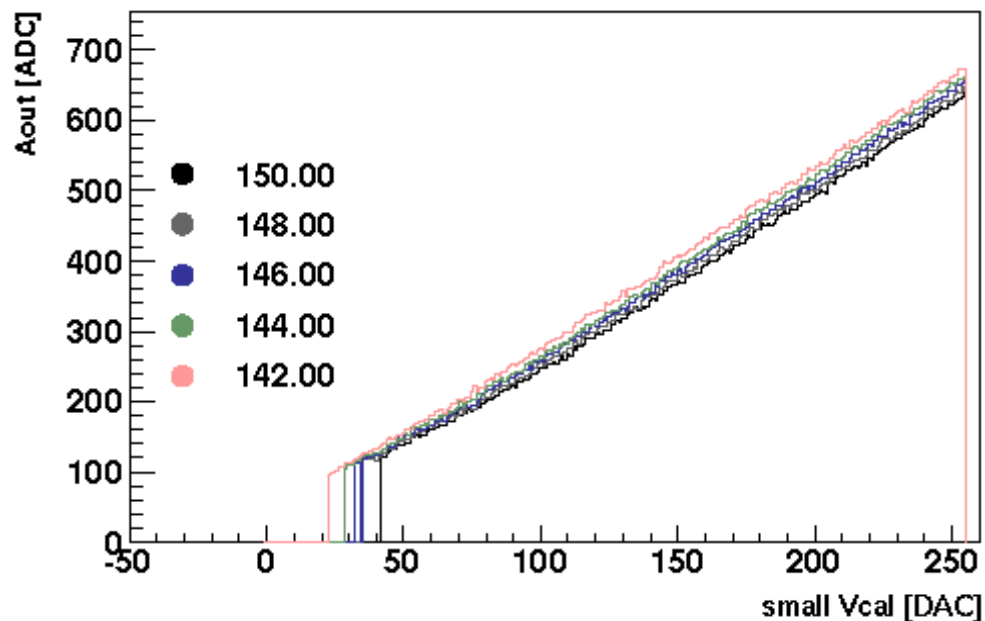
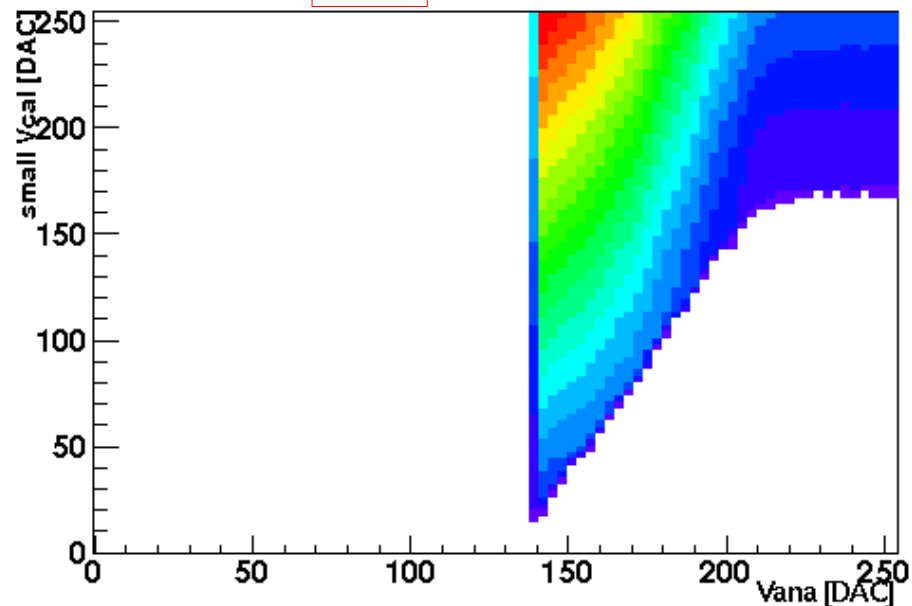
Status : Code is currently being coded.



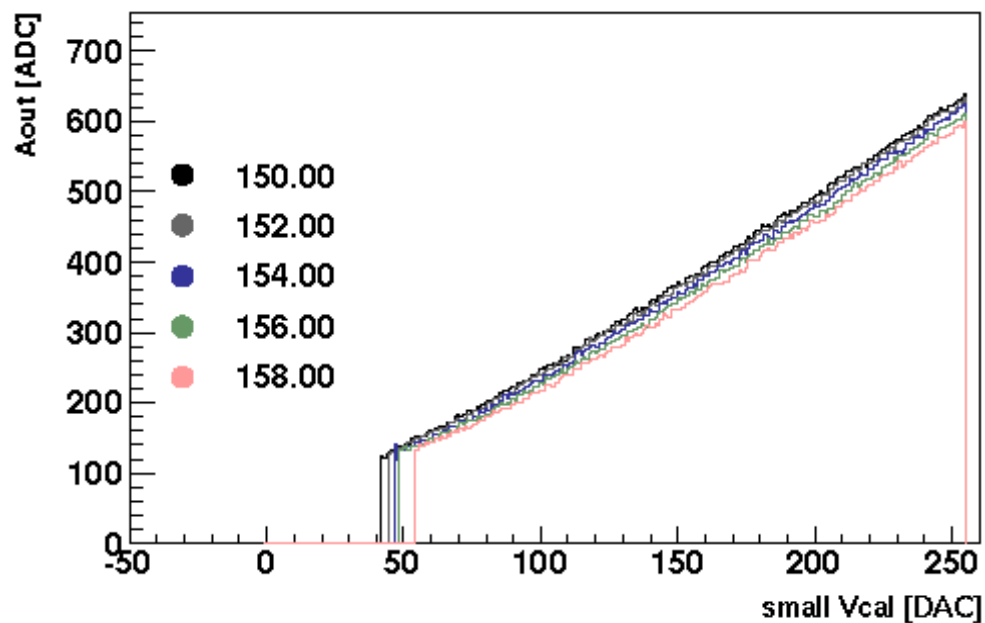
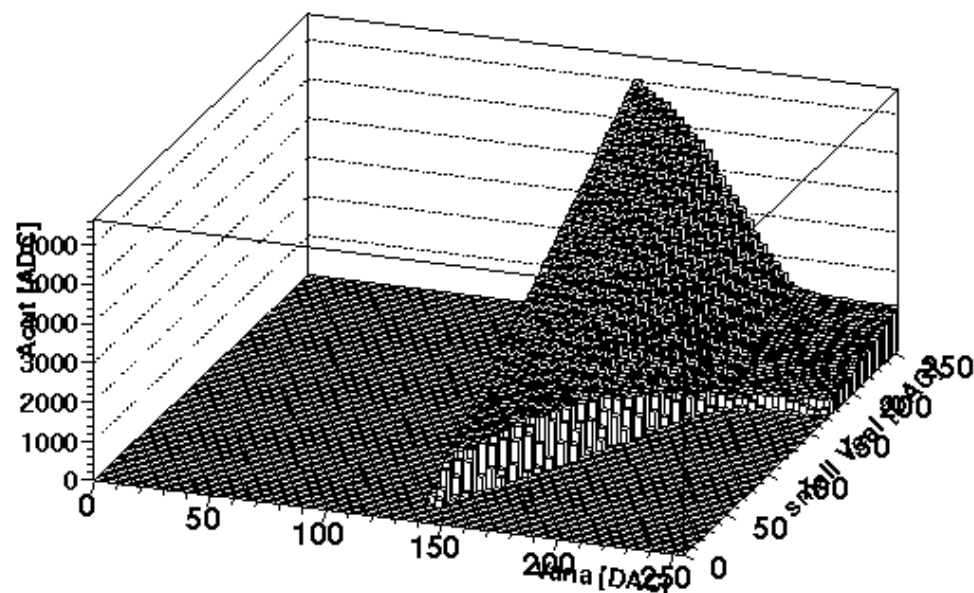
From the literature [various web sources from all over the place] it seems that the 3 main parameters to calibrate are: Vsf , Vana, VhldDel

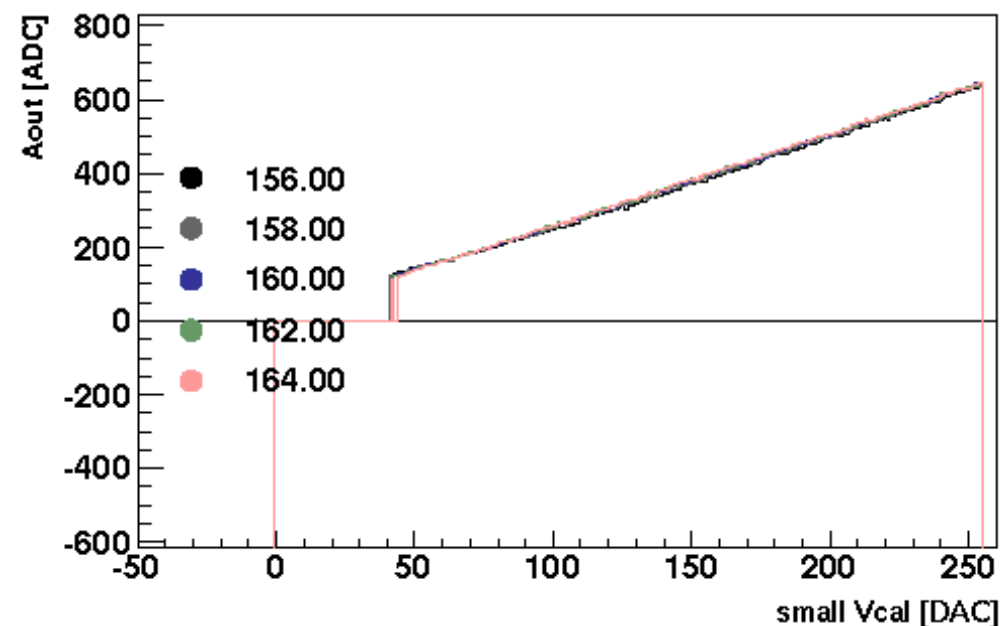
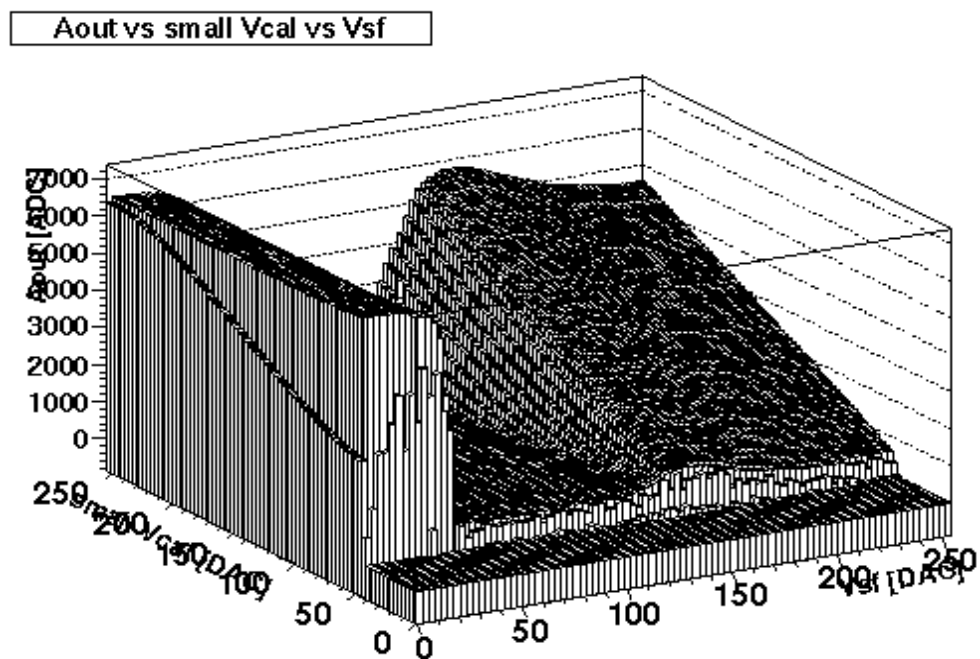
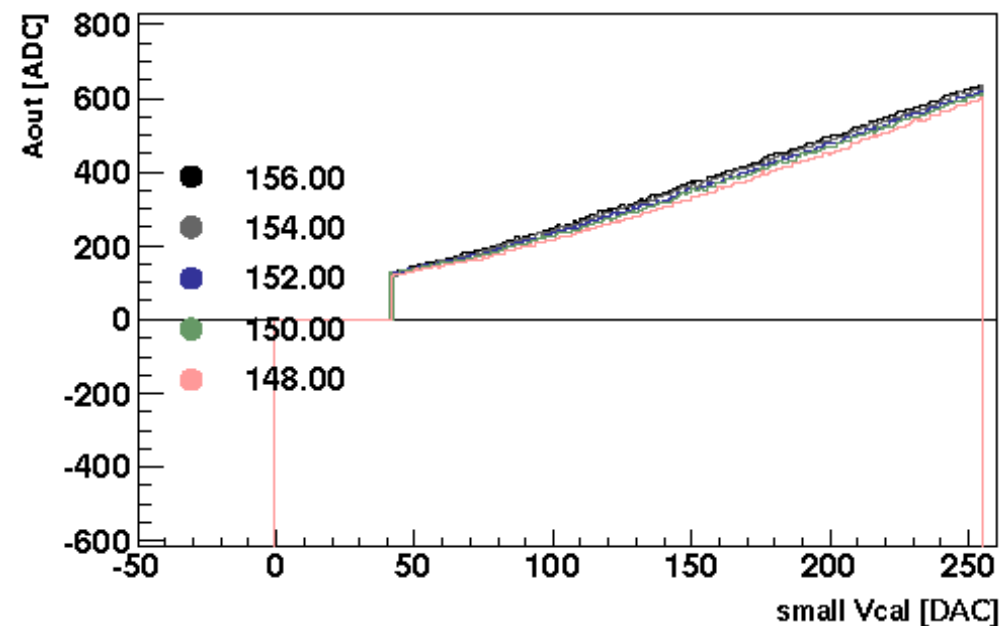
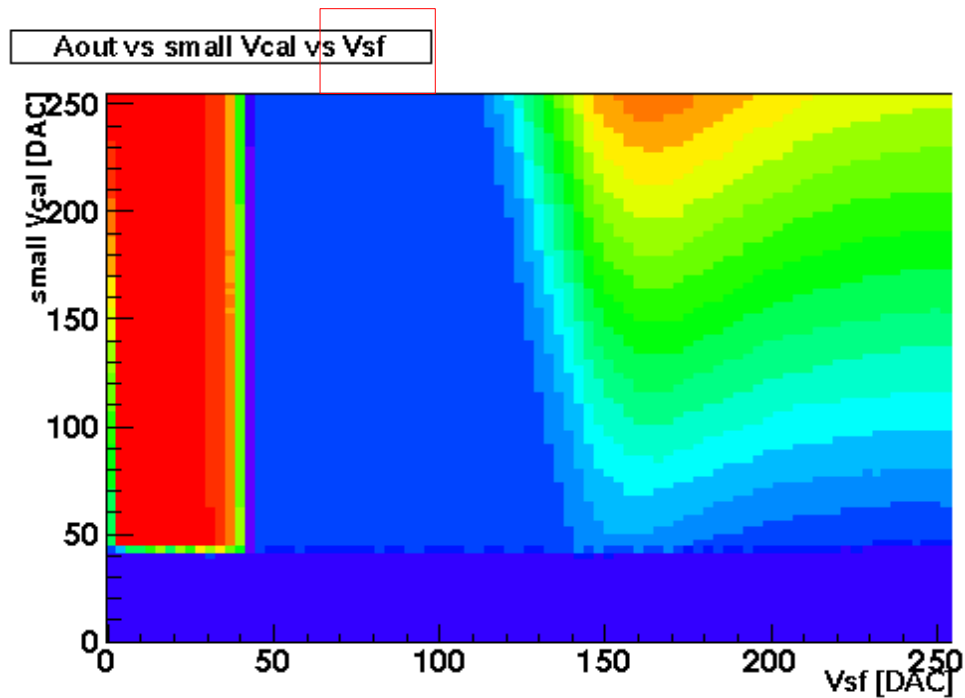
I scanned all 27 parameters to have a feeling if there ought to be other dependencies.

Aout vs small Vcal vs Vana

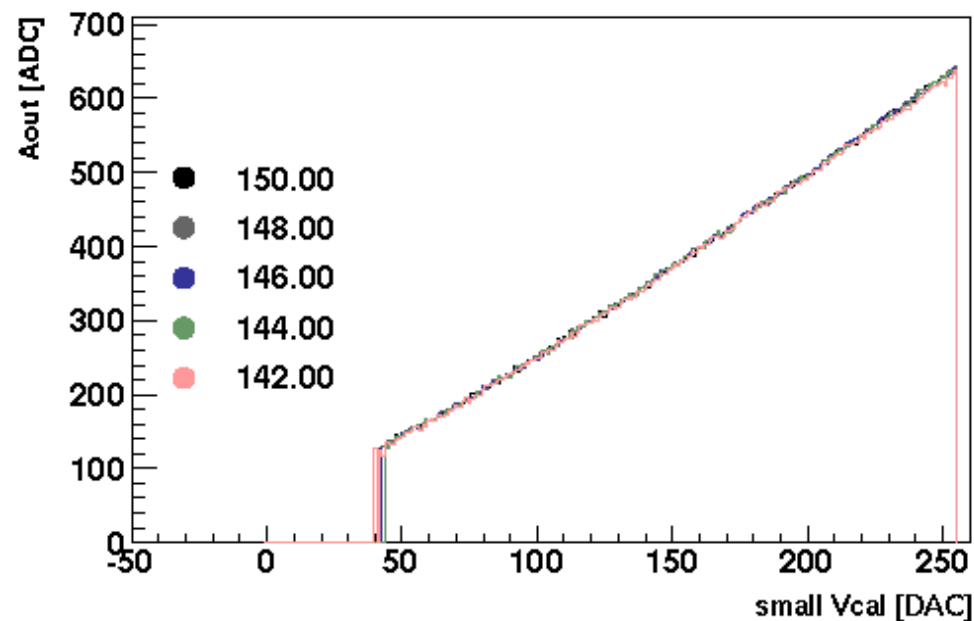
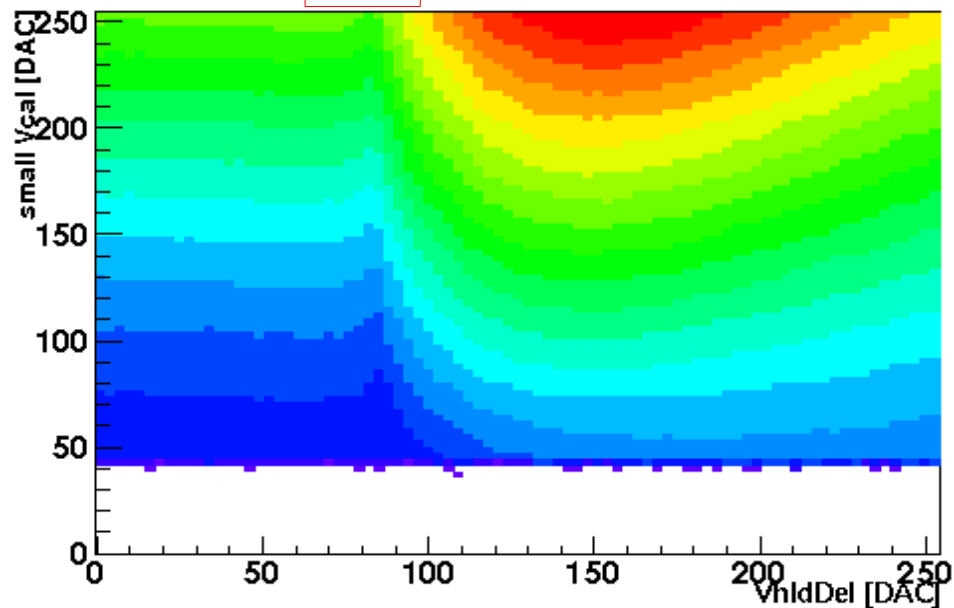


Aout vs small Vcal vs Vana

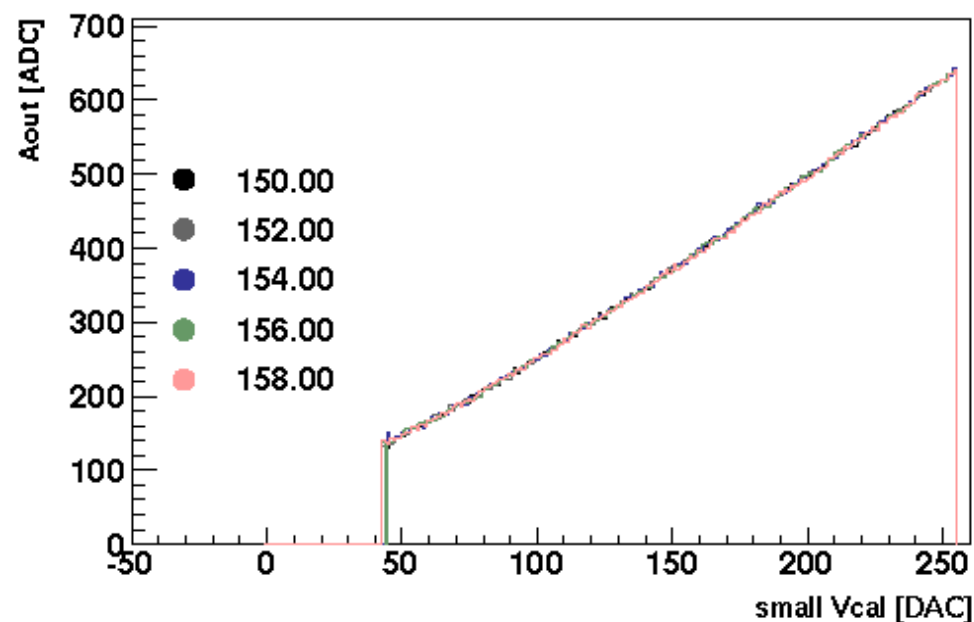
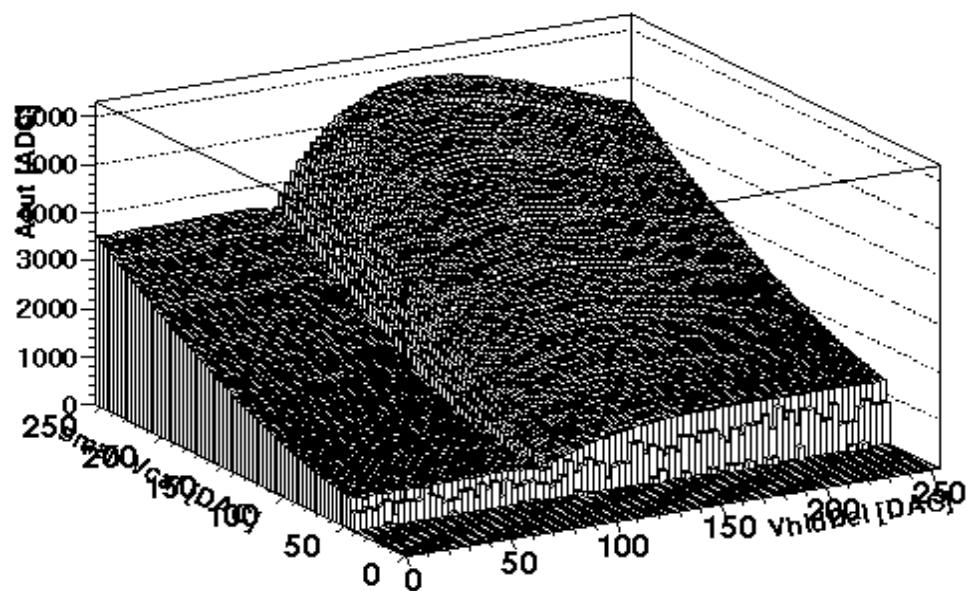




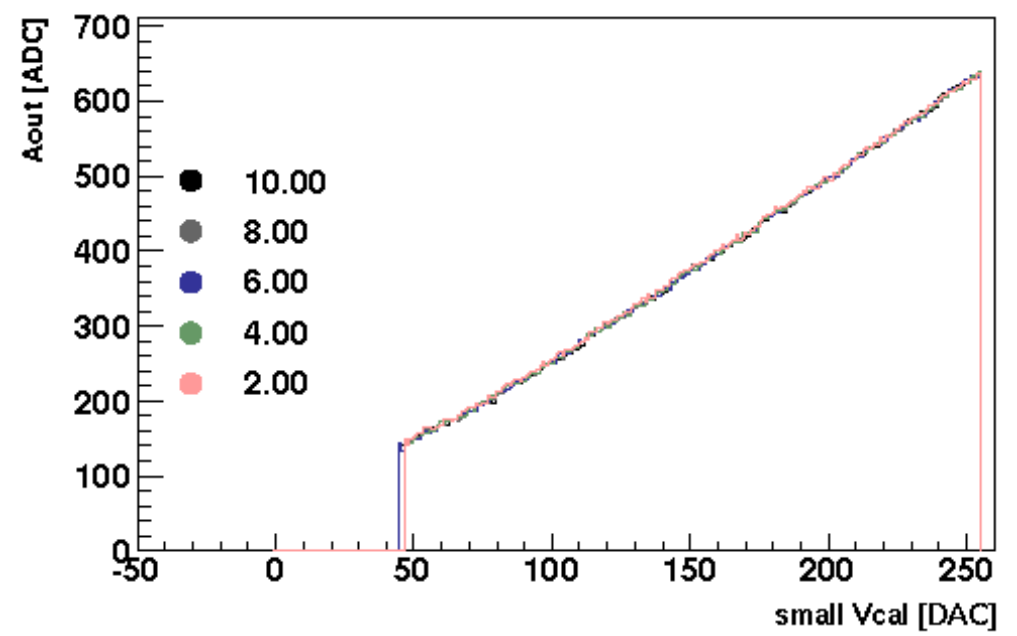
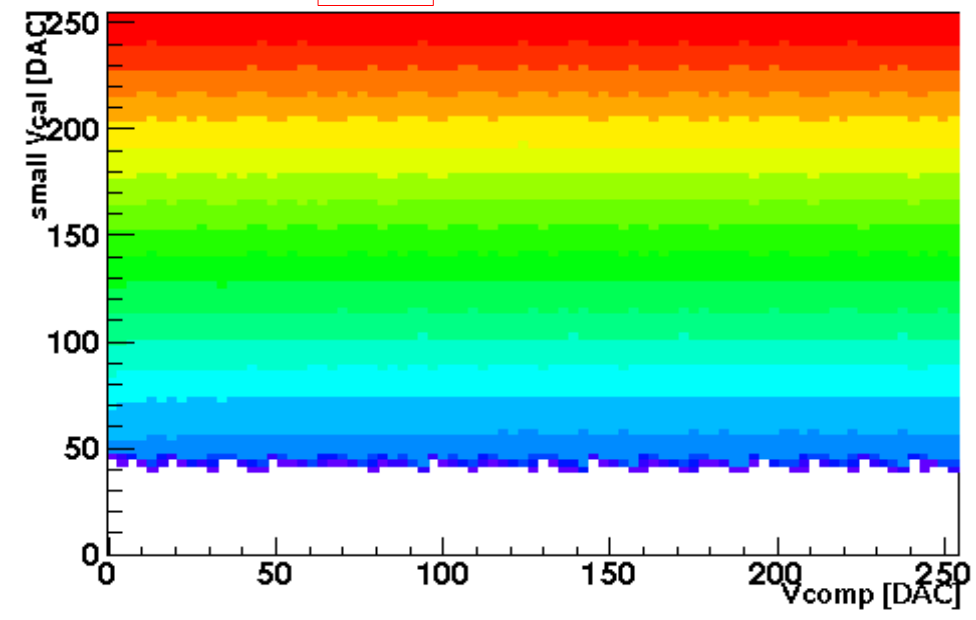
Aout vs small Vcal vs VhldDel



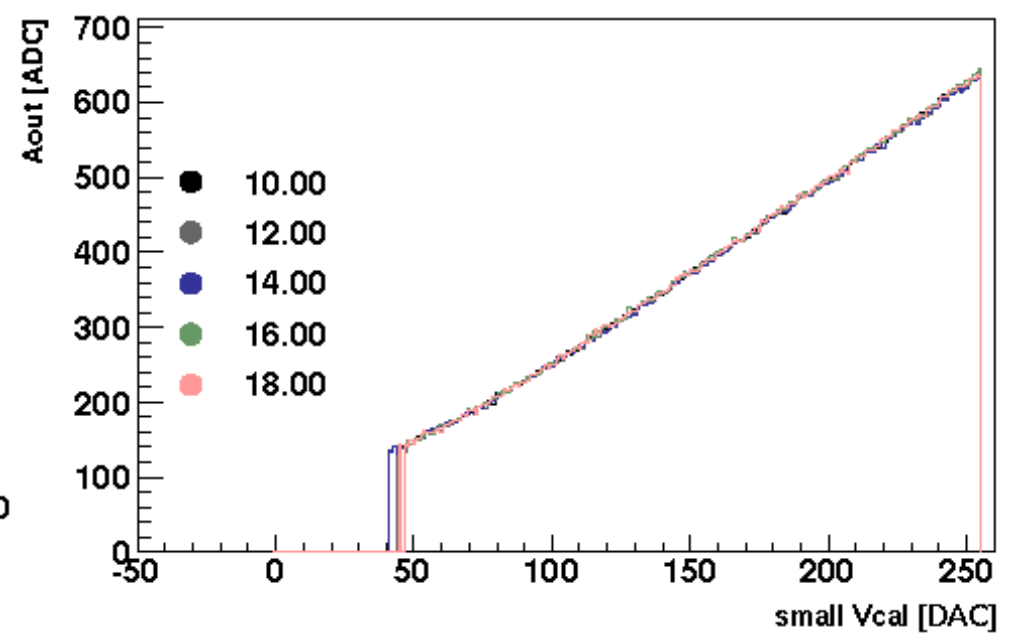
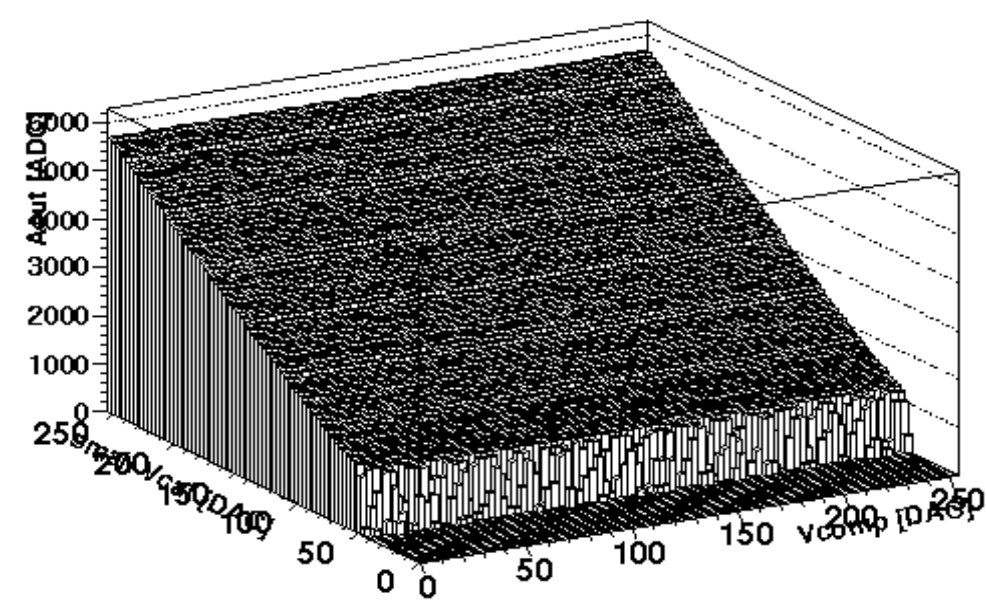
Aout vs small Vcal vs VhldDel



Aout vs small Vcal vs Vcomp



Aout vs small Vcal vs Vcomp



Conclusions :

Code is being written to calibrate ROC for user specified set of DAC Parameters using Chi2/DOF, Number of Lost Points and Ridge Value. [I hope ready by next week]

First look shows tuning variables to be V_{sf} , V_{ana} and V_{hldDel} .