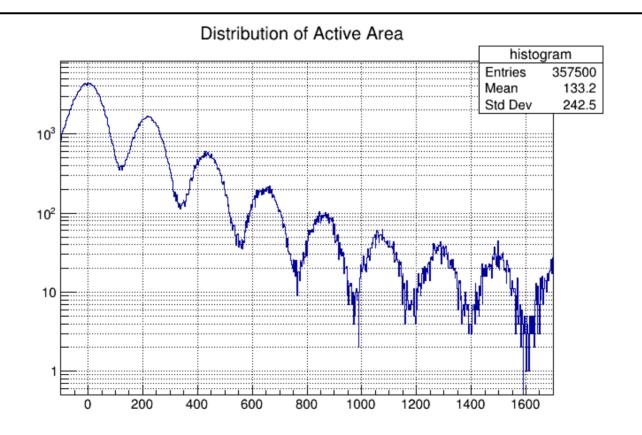
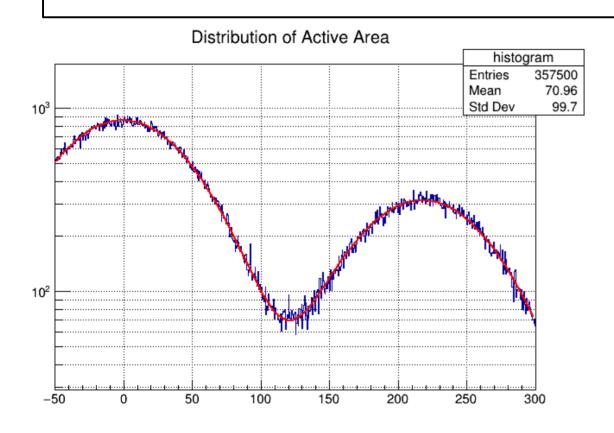
AVANCES DE TESIS SEMANA 18/FEB/2025

La simulación de primeros principios ya funciona correctamente en el cluster y tanto los espectros angulares como el de longitudes es el esperado.

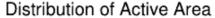


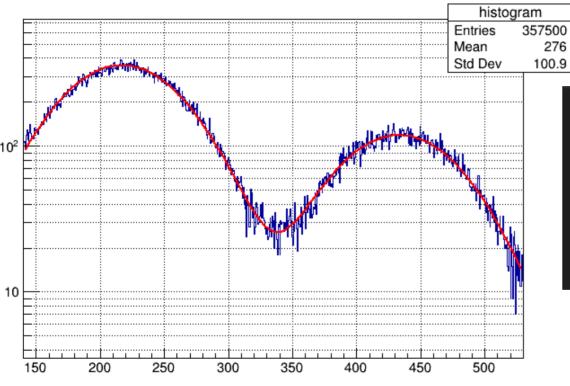
La simulación de primeros principios ya funciona correctamente en el cluster y tanto los espectros angulares como el de longitudes es el esperado.



Offset Value: 14920.0 ADUs
Parameters of the Doble-Gaussian Fit
Mean: -0.7504785705212468 +- 0.18707621586172551
Sigma: 47.21552721544298 +- 0.11502714120479024
Gain: 218.44456903345625 +- 0.2891212480741184
First Peak: 856.7670867301733 +- 2.3681895002189597
Second Peak: 313.4632523332622 +- 1.3498370229674255

chiSquare: 675.9774089074127
NDegrees of Freedom: 695
chiSquare / NDF: 0.9726293653344068
Prob: 0.6904170085882839





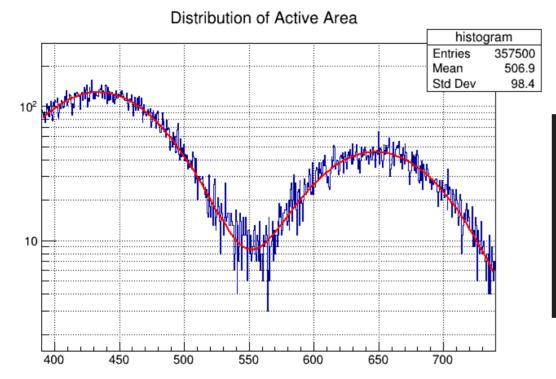
Offset Value: 14920.0 ADUs

Parameters of the Doble-Gaussian Fit

Mean: 217.2101176666199 +- 0.21141135958772062 Sigma: 46.148018053968556 +- 0.14278330057010774 Gain: 216.16482732424973 +- 0.382104783117008 First Peak: 355.776201236921 +- 1.593656802961009 Second Peak: 118.48624982046684 +- 0.8478897280396271

chiSquare: 719.2626689997587 NDegrees of Freedom: 695

chiSquare / NDF : 1.0349103151075665



Offset Value: 14920.0 ADUs

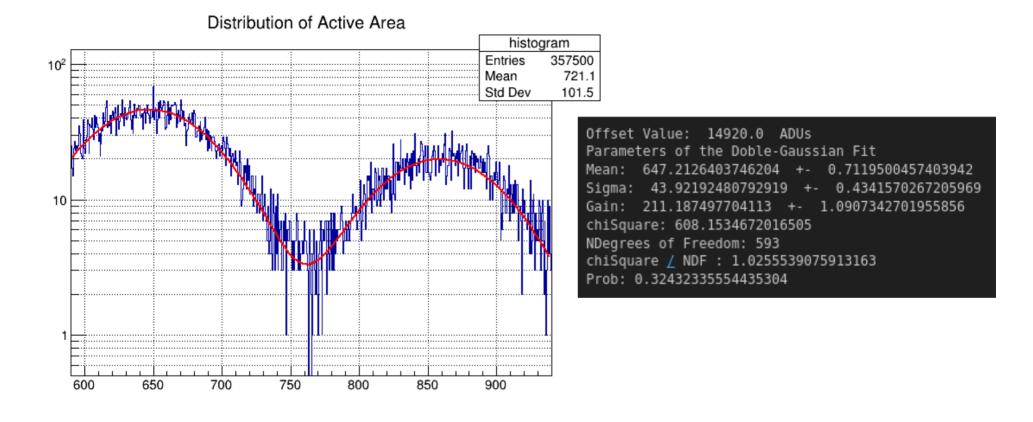
Parameters of the Doble-Gaussian Fit

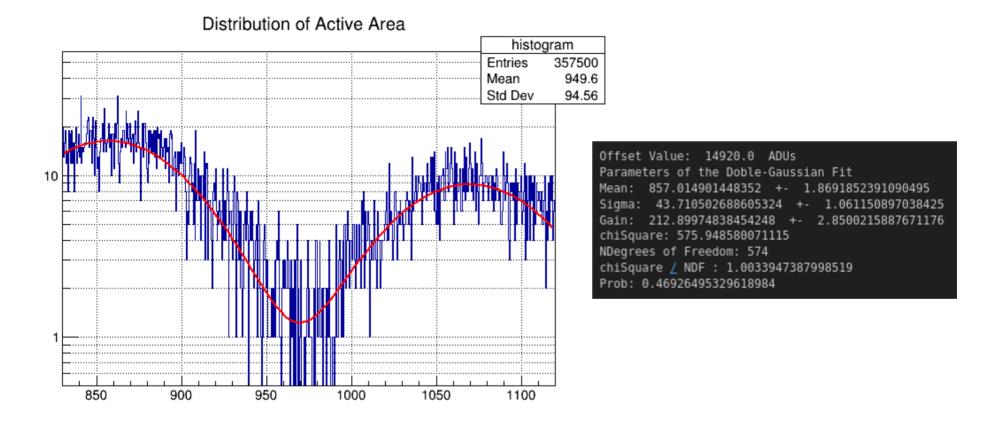
Mean: 433.60045105643985 +- 0.5299662086477708 Sigma: 44.81688700484126 +- 0.3008321486588648 Gain: 214.03236114756797 +- 0.7710821735952911

First Peak: 126.63006508999678 +- 1.0048056192510622 Second Peak: 45.50066946728747 +- 0.5665499916199395

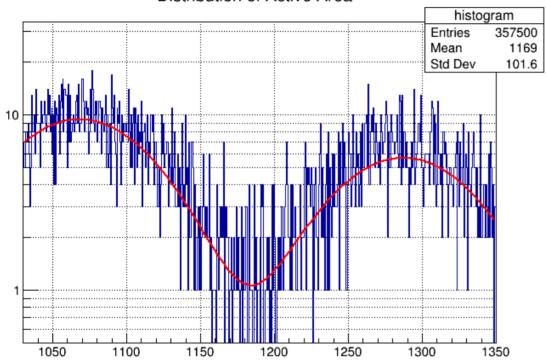
chiSquare: 627.3689238290912 NDegrees of Freedom: 595

chiSquare / NDF : 1.0544015526539348





Distribution of Active Area



Offset Value: 14920.0 ADUs

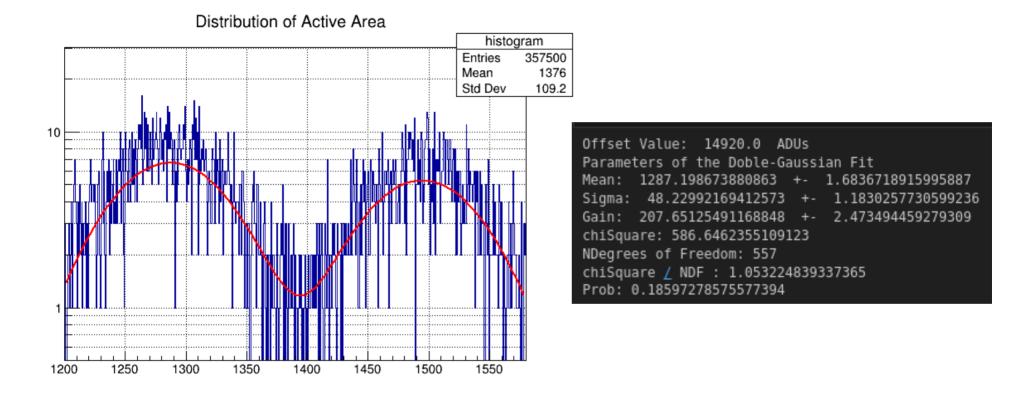
Parameters of the Doble-Gaussian Fit

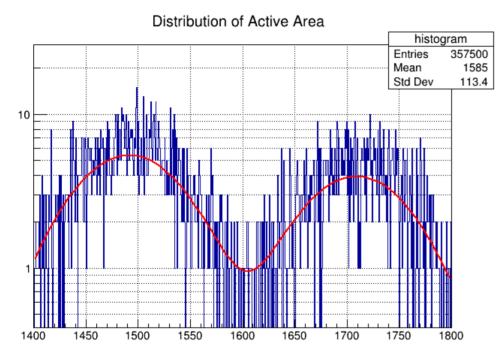
Mean: 1068.5032475447056 +- 2.241154413882677 Sigma: -47.90737104282194 +- 1.3789201204616823 Gain: 219.11003955671325 +- 3.2121821830724526

chiSquare: 574.7216154966413

NDegrees of Freedom: 573

chiSquare / NDF : 1.0030045645665644





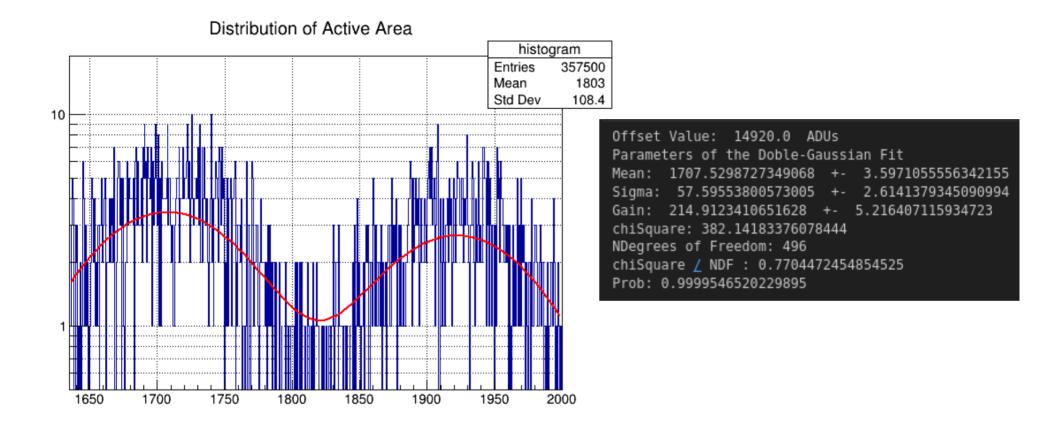
Offset Value: 14920.0 ADUs Parameters of the Doble-Gaussian Fit Mean: 1491.6534667250064 +- 1.9765238091596495

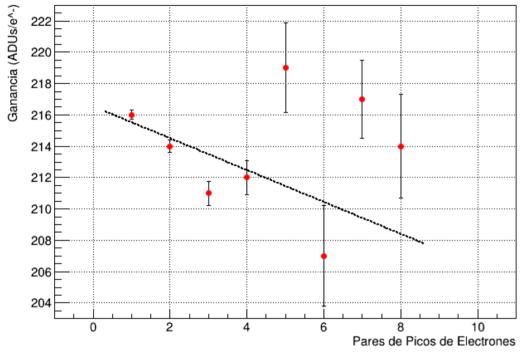
Sigma: 51.07213533015128 +- 1.5503368838139178 Gain: 217.54349803952695 +- 3.3171719311232986

chiSquare: 473.11244680593217

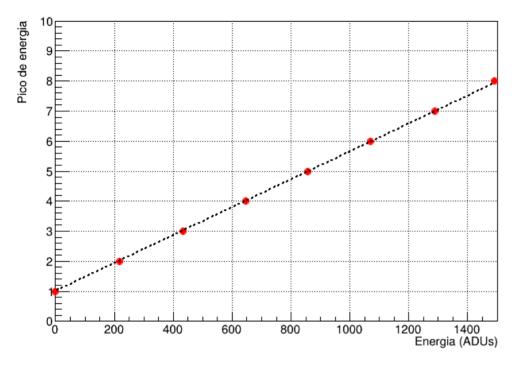
NDegrees of Freedom: 520

chiSquare / NDF : 0.9098316284729465

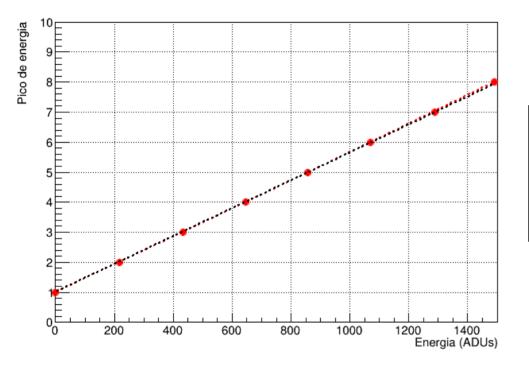




```
Parameters of the Fit
Origen: 216.53946426901 +- 0.40159085233487296
Pend: -1.0166122100398591 +- 0.19955255966336652
chiSquare: 35.4808703849618
NDegrees of Freedom: 6
chiSquare / NDF : 5.913478397493633
Prob: 3.4768909385202316e-06
 FCN=35.4809 FROM MIGRAD
                                                35 CALLS
                          STATUS=CONVERGED
                                                                 36 TOTAL
                                                       ERROR MATRIX ACCURATE
                    EDM=5.95235e-20
                                      STRATEGY= 1
  EXT PARAMETER
                                                STEP
                                                             FIRST
  NO.
      NAME
                 VALUE
                                 ERROR
                                                SIZE
                                                          DERIVATIVE
     pΘ
                                             6.31295e-04 1.06926e-09
                 2.16539e+02 4.01591e-01
                 -1.01661e+00
                              1.99553e-01
                                             3.13694e-04 3.11449e-09
Warning in <TCanvas::Constructor>: Deleting canvas with same name: c2
```



```
Parameters of the Fit
Origen: 0.998342630085829 +- 0.0007290753242036732
Pend: 0.004642978194825908 +- 2.7706277407006454e-06
chiSquare: 210.69554981268215
NDegrees of Freedom: 6
chiSquare / NDF : 35.115924968780355
Prob: 1.0011701556693258e-42
FCN=210.696 FROM MIGRAD
                          STATUS=CONVERGED
                                               99 CALLS
                                                               100 TOTAL
                   EDM=2.95624e-07
                                     STRATEGY= 1
                                                      ERROR MATRIX ACCURATE
 EXT PARAMETER
                                                           FIRST
                                               STEP
                                               SIZE
 NO. NAME
                VALUE
                                 ERROR
                                                         DERIVATIVE
                 9.98343e-01 7.29075e-04
                                            4.25916e-06 -1.27427e+00
                 4.64298e-03 2.77063e-06 1.61872e-08 -1.59382e+02
Warning in <TCanvas::Constructor>: Deleting canvas with same name: c2
```



```
Parameters of the Non-linear Fit
Origen: 1.003086758999477 +- 0.0007925600226322601
Pend: 0.004576728062600133 +- 5.434066427999075e-06
Non-linear term: -1.6137303445862074e-05 +- 1.158470378035804e-06
```

chiSquare: 16.80051387232579 NDegrees of Freedom: 5

chiSquare / NDF : 3.360102774465158