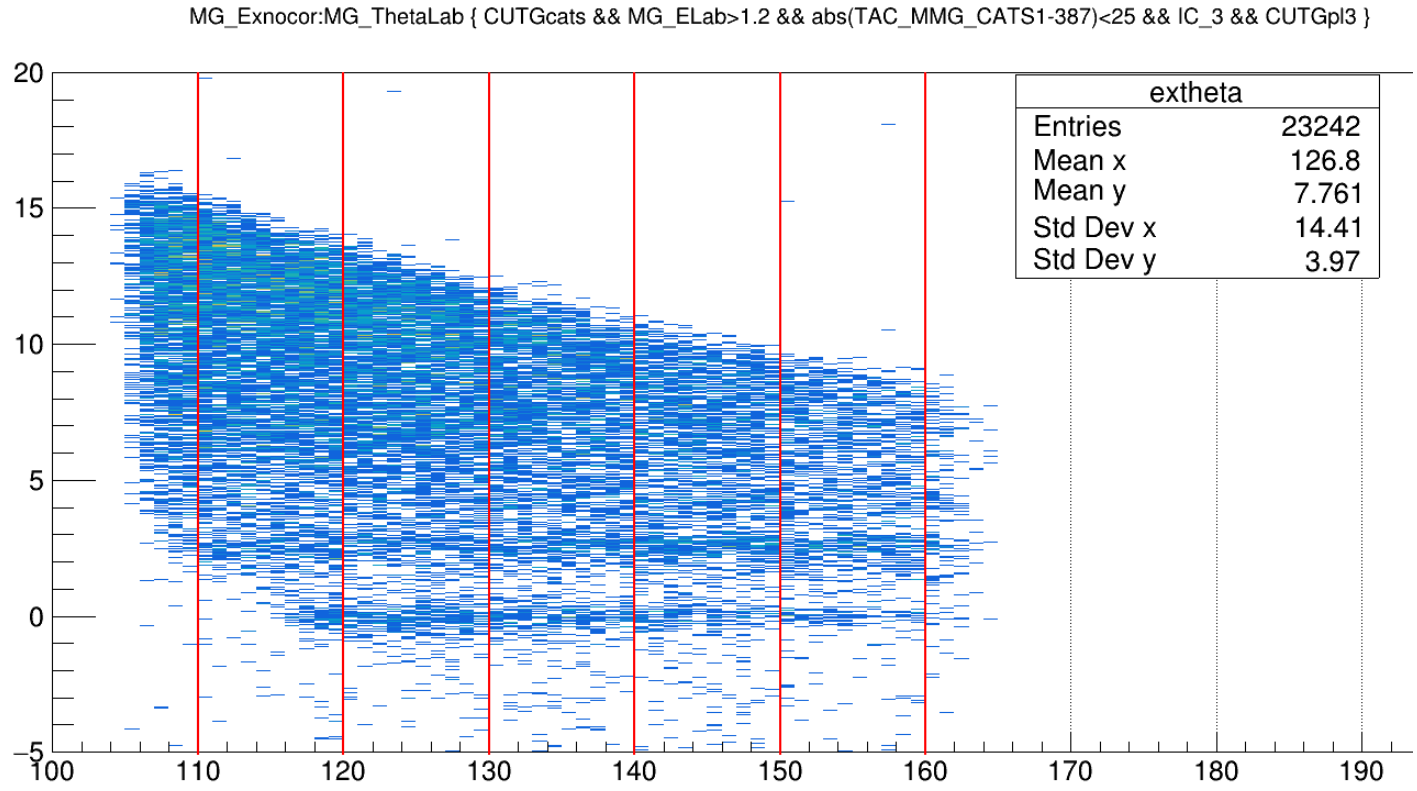
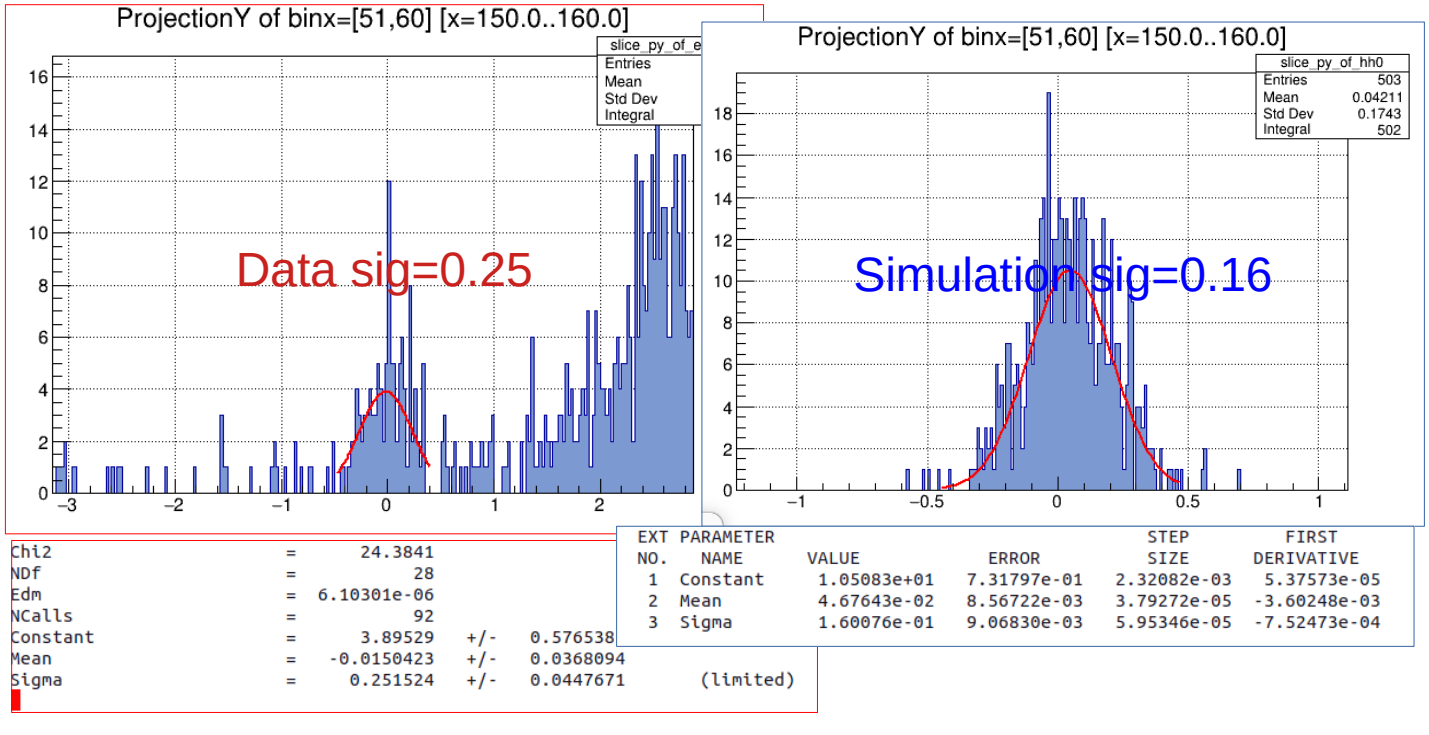
First method that I would like to try is fitting the peaks in the simulation manually and then using those parameters as fixed in the fits of the exc. Func. Real data peaks.

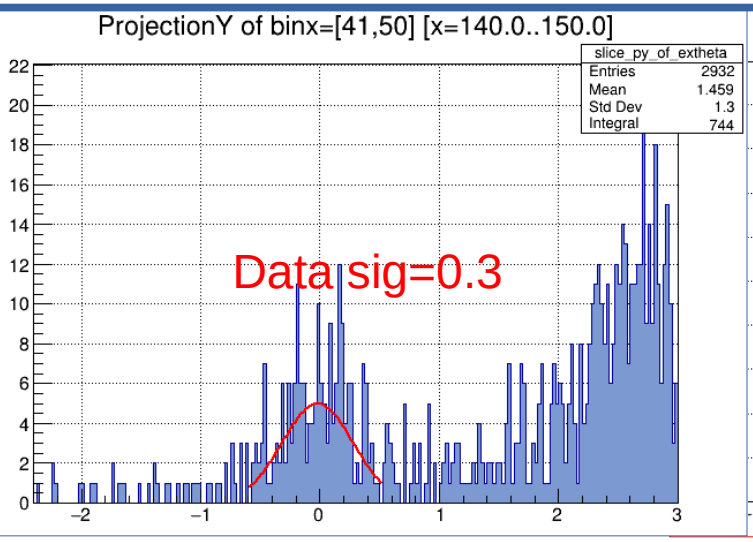


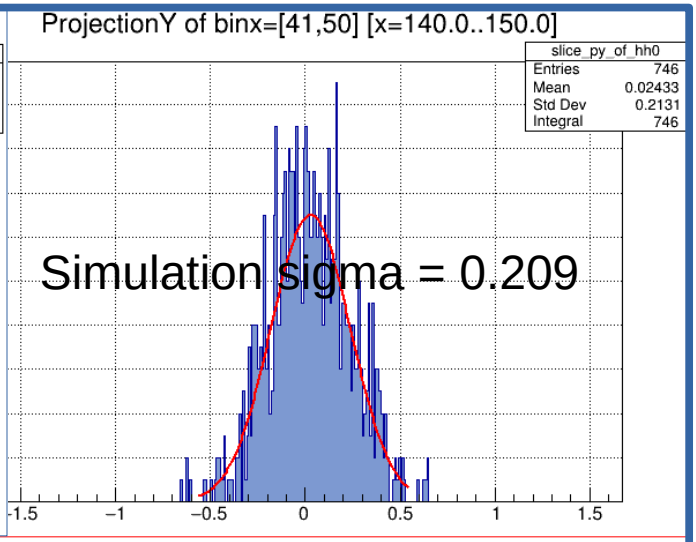



```
Chi2                      =      24.3841
NDf                       =           28
Edm                       =  6.10301e-06
NCalls                    =           92
Constant                  =      3.89529   +/-   0.576538
Mean                      =   -0.0150423   +/-   0.0368094
Sigma                     =     0.251524   +/-   0.0447671      (limited)
```

EXT NO.	PARAMETER NAME	VALUE	ERROR	STEP SIZE	FIRST DERIVATIVE
1	Constant	1.05083e+01	7.31797e-01	2.32082e-03	5.37573e-05
2	Mean	4.67643e-02	8.56722e-03	3.79272e-05	-3.60248e-03
3	Sigma	1.60076e-01	9.06830e-03	5.95346e-05	-7.52473e-04

For the case of G.S. 150<theta<160

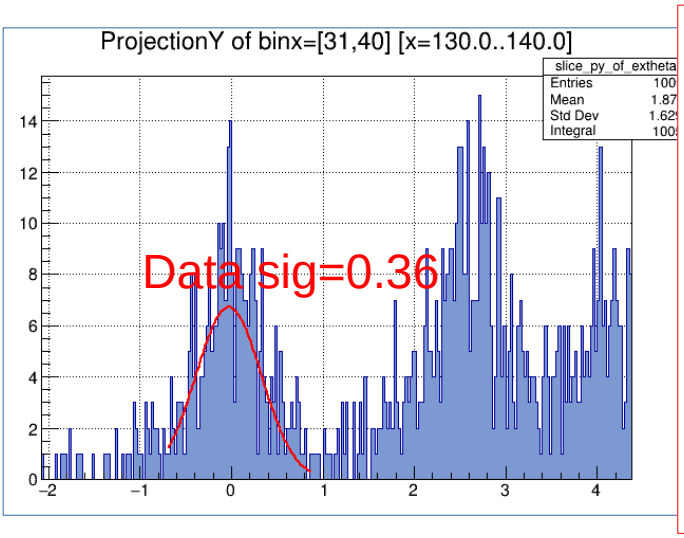


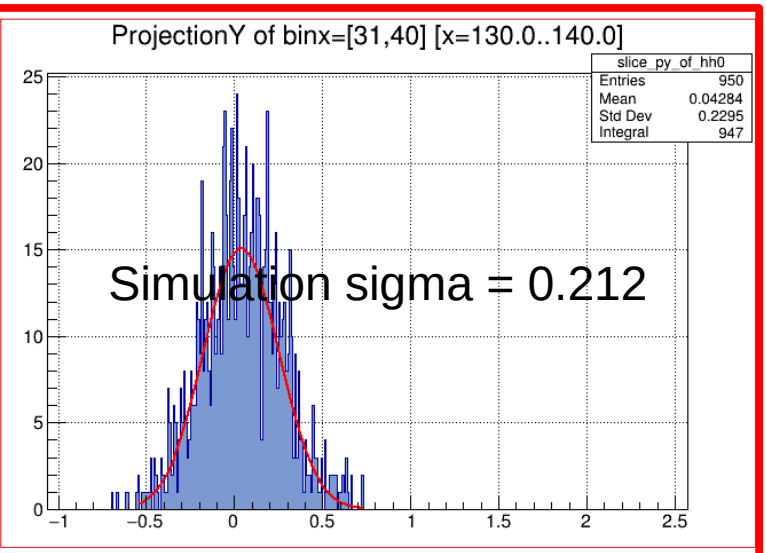


EXT NO.	PARAMETER NAME	VALUE	ERROR	STEP SIZ
1	Constant	4.98996e+00	5.98486e-01	1.5079
2	Mean	-2.09396e-02	3.07086e-02	1.0892
3	Sigma	2.99004e-01	3.64511e-02	1.1032

EXT NO.	PARAMETER NAME	VALUE	ERROR	STEP SIZE	FIRST DERIVATIVE
1	Constant	1.30075e+01	6.61261e-01	2.14943e-03	8.94966e-04
2	Mean	2.81222e-02	8.88064e-03	3.73647e-05	2.06315e-02
3	Sigma	2.09258e-01	8.00029e-03	4.18794e-05	6.94348e-02

For the case of G.S. 140<theta<150

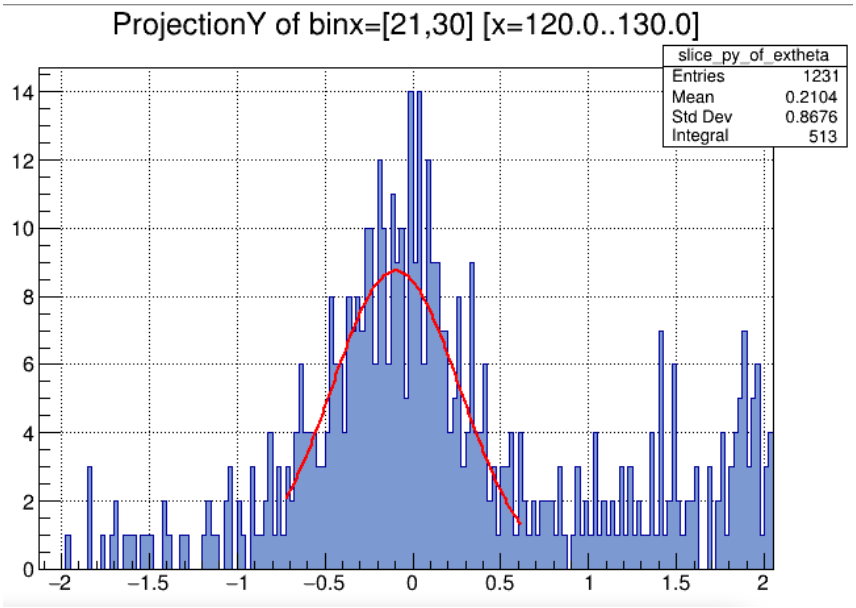




EXT NO.	PARAMETER NAME	VALUE	ERROR
1	Constant	6.73200e+00	6.76741e-01
2	Mean	-3.13777e-02	2.61322e-02
3	Sigma	3.57754e-01	3.32259e-02

EXT NO.	PARAMETER NAME	VALUE	ERROR
1	Constant	1.50843e+01	7.04465e-01
2	Mean	3.69977e-02	7.78021e-03
3	Sigma	2.11808e-01	6.86165e-03

For the case of G.S. 130<theta<140



EXT NO.	PARAMETER NAME	VALUE	ERROR
1	Constant	8.74824e+00	6.93098e-01
2	Mean	-9.78510e-02	2.56901e-02
3	Sigma	3.66217e-01	2.81769e-02