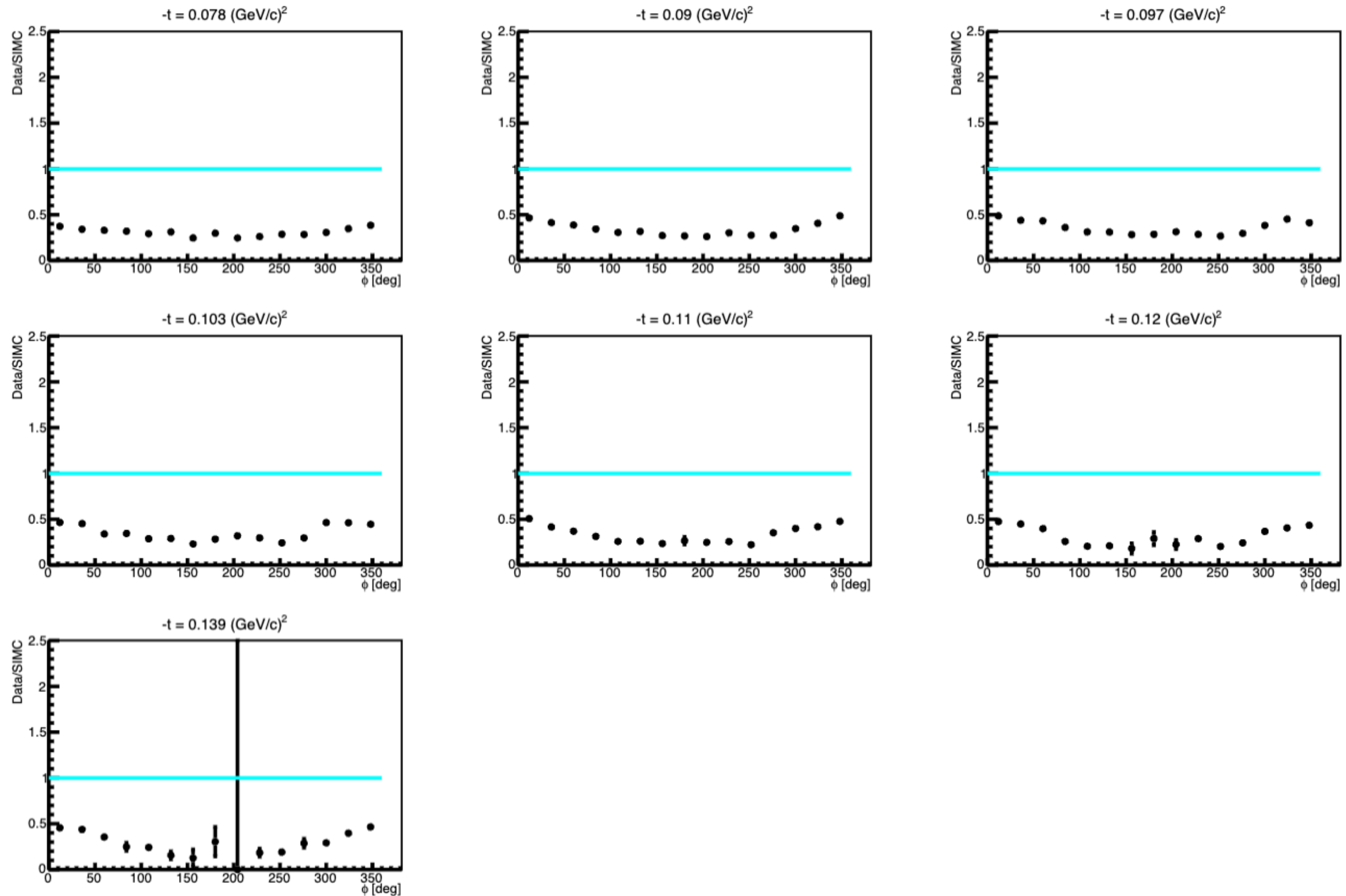


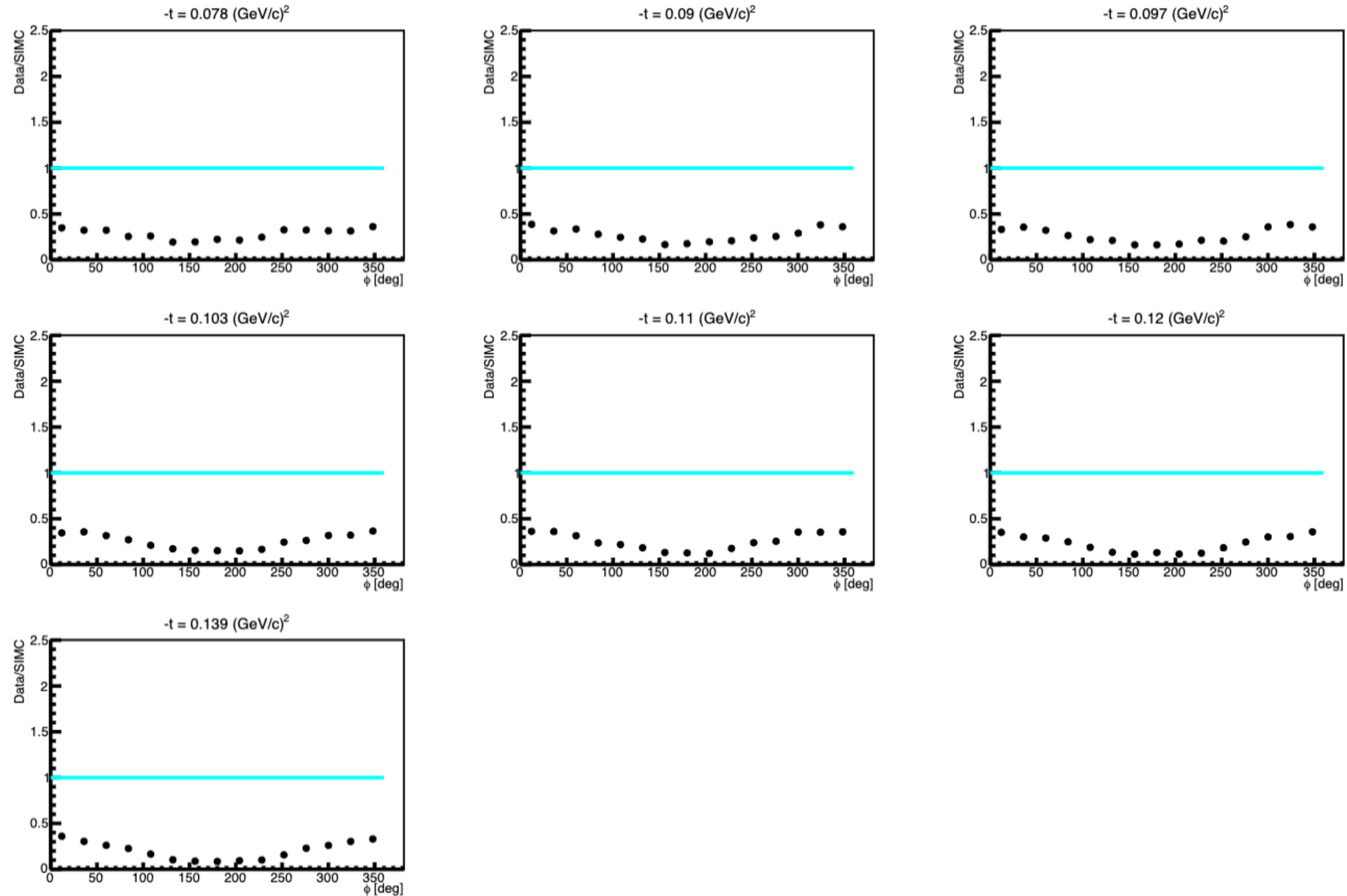
LTSep iterations results (first look)

Abdennacer Hamdi

KaonLT Meeting
2025/07/31

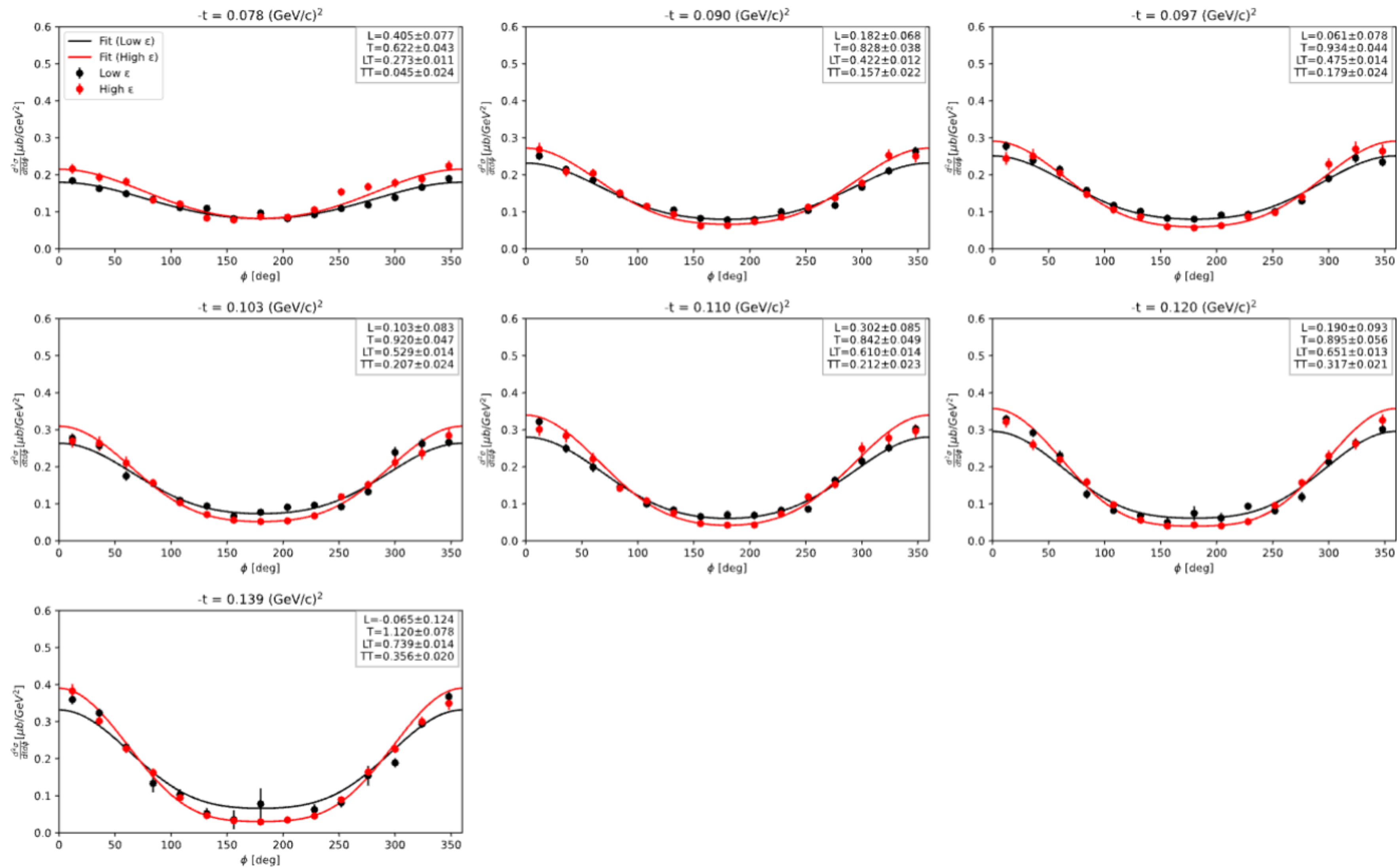
Initial parameters

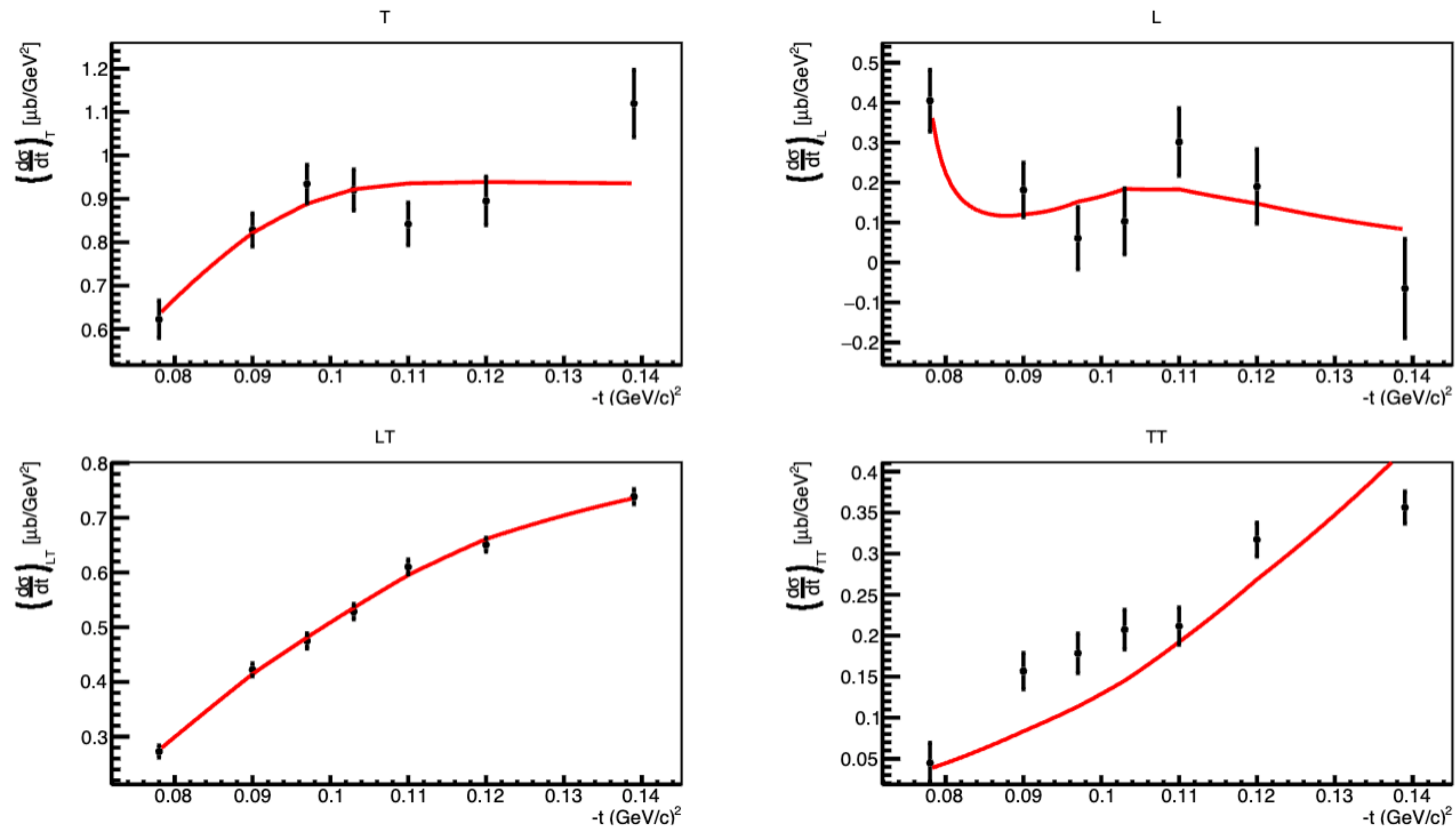




Simultaneous Rosenbluth Fit

Λ



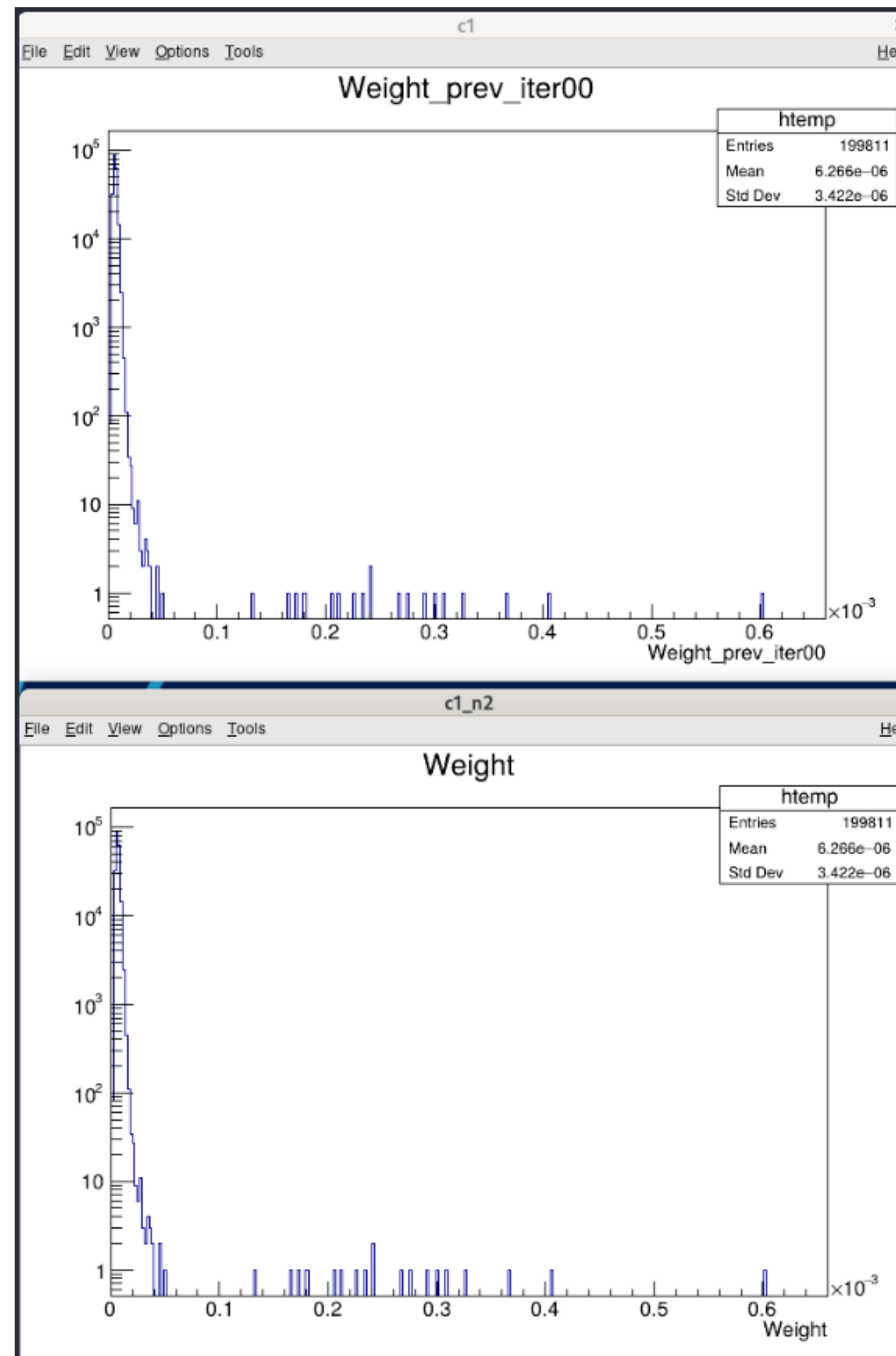


Testing the iteration script

- Calculate new Weight using initial fit parameters -> Consistent !

SIMC Output

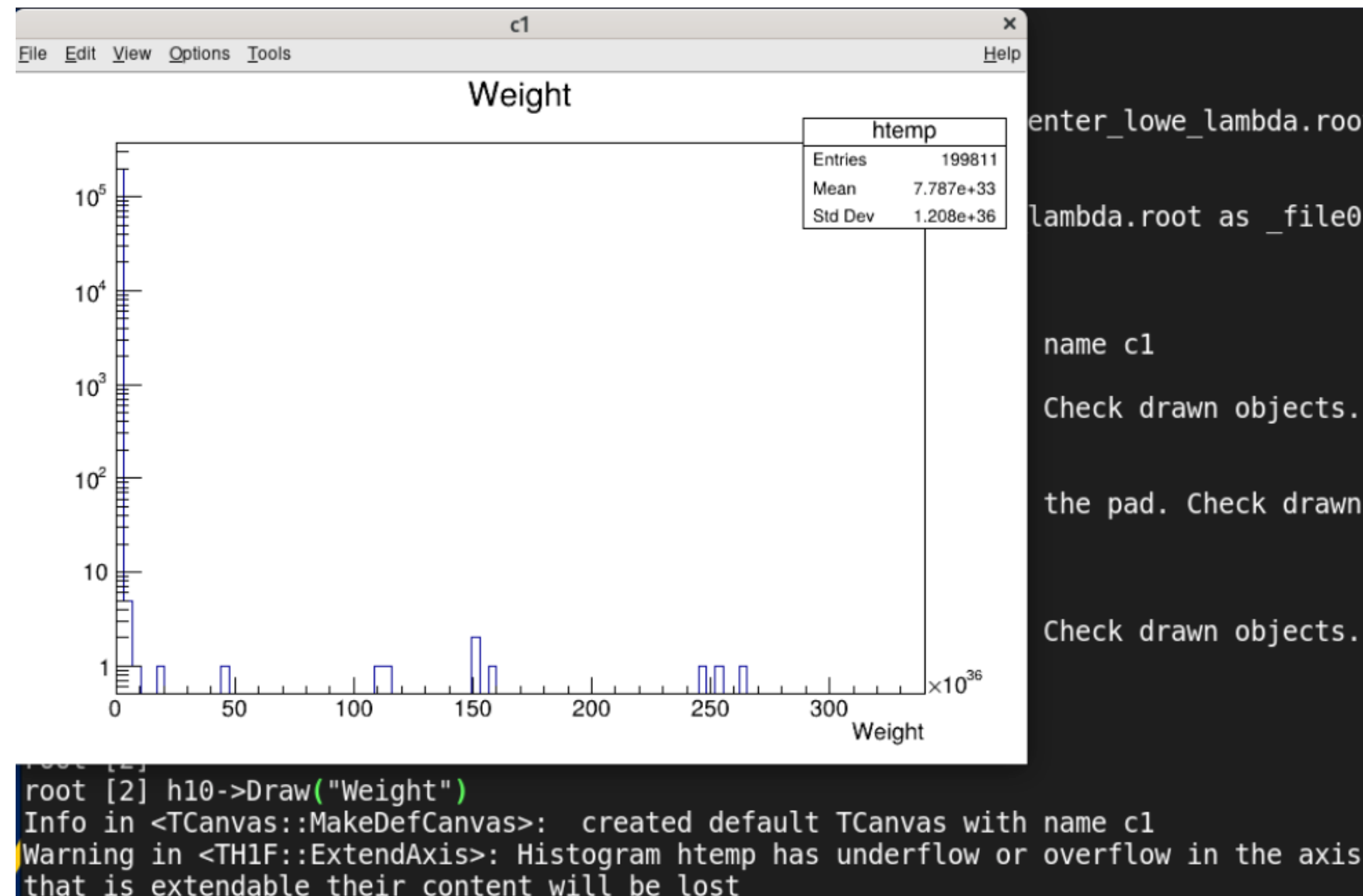
Weight
calculation script



Iteration 01

SIMC Yields

- After new Weight calculation using fit parameters of iteration 01 -> Weighed variables crash !



```
c1
File Edit View Options Tools Help

name c1
overflow in the axis
overflow in the axis
overflow in the axis
overflow in the axis
overflow in the axis
overflow in the axis

Check drawn objects.

enter_low_lambda.root

Attaching file Q0p5W2p40_iter01/Prod_Coin_Q0p5W2p40center_low_lambda.root as _file0.
..
(TFile *) 0x11b8e00
root [1] h10->Draw("W","Weight")
Info in <TCanvas::MakeDefCanvas>: created default TCanvas with name c1
(long long) 196373
Warning in <TCanvas::ResizePad>: Inf/NaN propagated to the pad. Check drawn objects.
Warning in <TCanvas::ResizePad>: c1 height changed from 0 to 10

root [2] Warning in <TCanvas::ResizePad>: Inf/NaN propagated to the pad. Check drawn
objects.
Warning in <TCanvas::ResizePad>: c1 height changed from 0 to 10

Warning in <TCanvas::ResizePad>: Inf/NaN propagated to the pad. Check drawn objects.
Warning in <TCanvas::ResizePad>: c1 height changed from 0 to 10
```

Initial

3.9	1.0	1
5.8	1.0	2
0.0000	0.0000	3
0.0000	0.0000	4
214.0	10.0	5
8.6	1.0	6
0.7	0.1000	7
1.77	0.5000	8
0.05	0.05	9
3.98	1.0	10
0.8	0.5	11
0.7	0.1	12
22.5	5.	13
14.9	1.	14
0.0	0.0	15
0.0	0.0	16

Iteration 01

1.954	0.191	1
-0.757	0.094	2
0.000	0.000	3
0.000	0.000	4
2390.261	3496.946	5
246.736	17.276	6
-411.771	26.382	7
-227.478	5.185	8
507.688	11.646	9
3.698	0.002	10
-0.321	0.048	11
-34.337	0.858	12
-0.125	0.184	13
2.121	0.076	14
0.000	0.000	15
0.000	0.000	16