Weekly Report
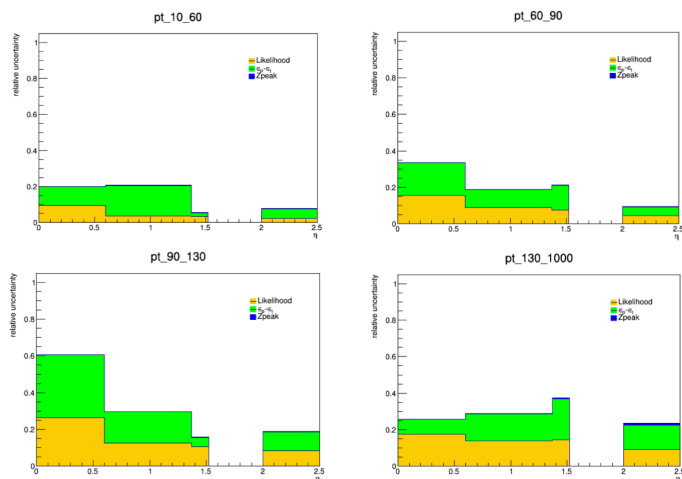
Shuiting Xin

Oct.19.2020

Systematic study

- Data-Driven Systematics:

1<=Njet<=2	Sys uncert. on e	Sys uncert. on u
Statistics	4.9%	9.7%
QmisID(stat only)	8.3%	0
Closure test	28.8%	32.4%

- Consider 4 variations :
    Lumi : 1.5%
    QmisID :
    Closure of e
    Closure of u

- Preform a naïve fit including overall sys factors
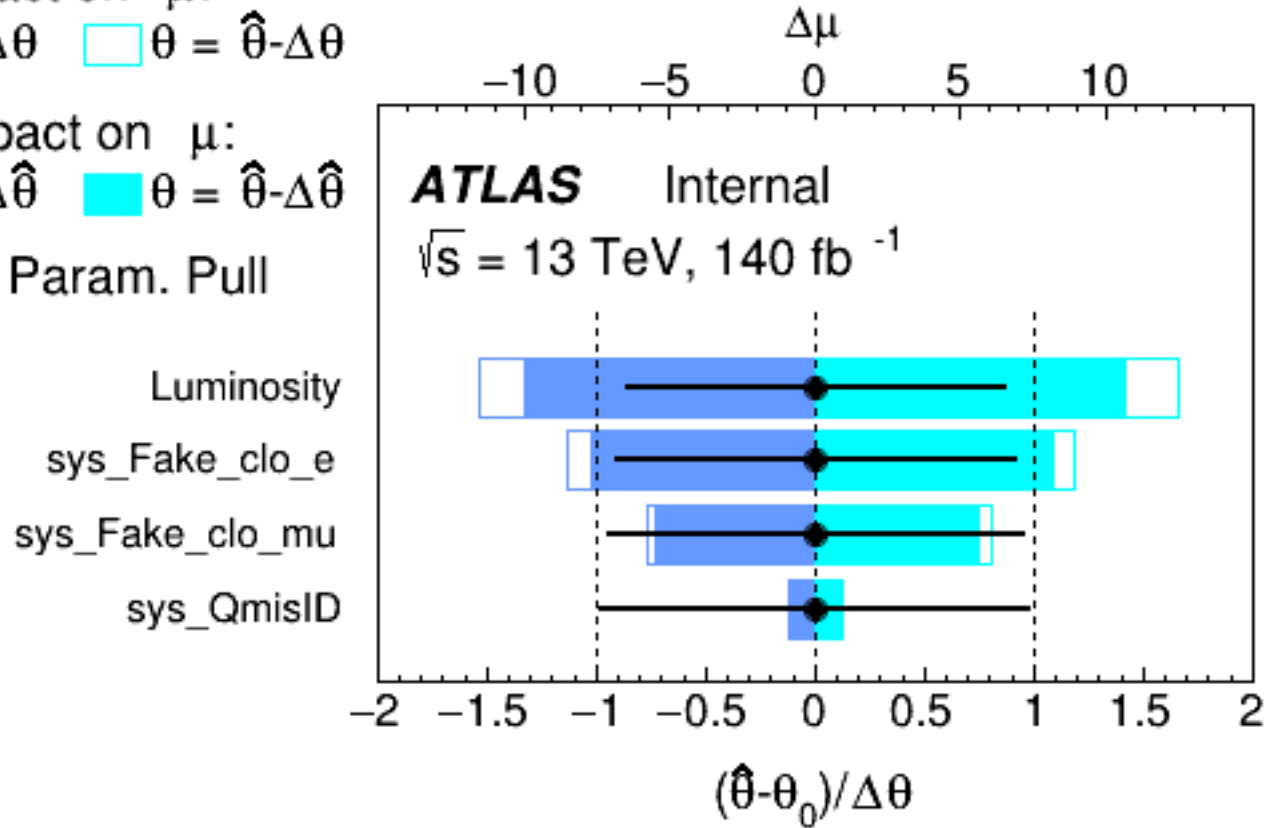- Need time to write sys-weight into the samples

Results

-2sigma	-1sigma	Median	1 sigma	2sigma	Significance
25.0104	33.5765	46.5981	58.5601	65.4311	0.0475
32.255	43.3024	60.09	84.8175	116.031	0.0362

Summary

- Still many technical issues to be done !