

Weizhi/Maxime Simulation Comparison for 2GeV

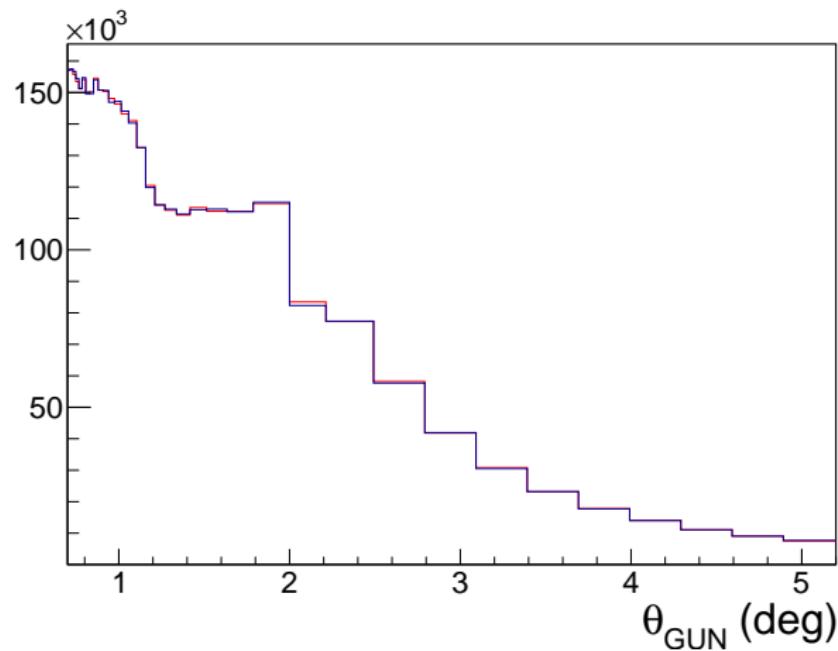
Maxime Levillain

July 14, 2017



GUN θ yields

Selection: $E_{\ell} > 1500$

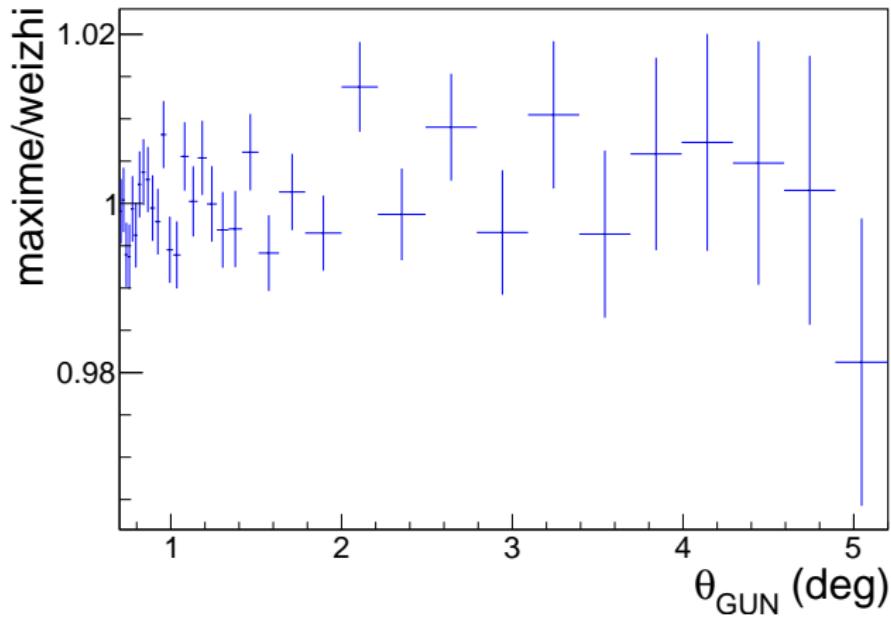


Difference: start from 0.4 or 0.5 degree

GUN θ yields

PROton
Radius

Selection: $E_L > 1500$

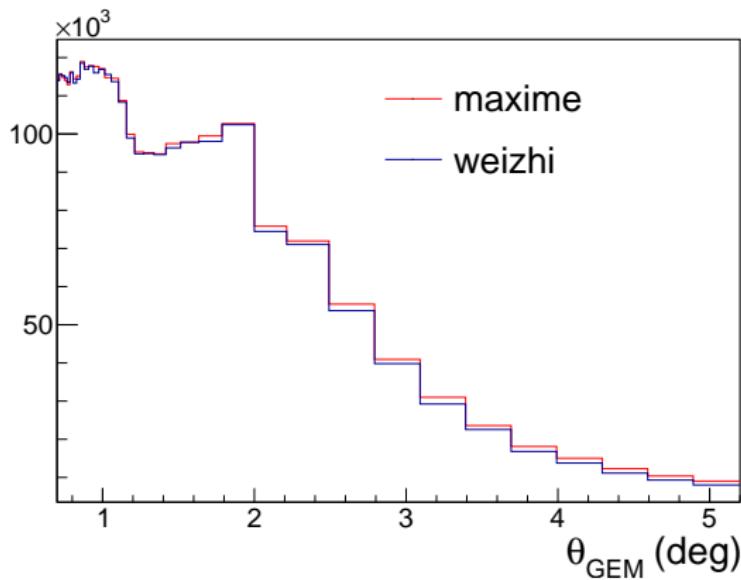


→ 1% level discrepancy

GEM θ yields without digitization

Selection

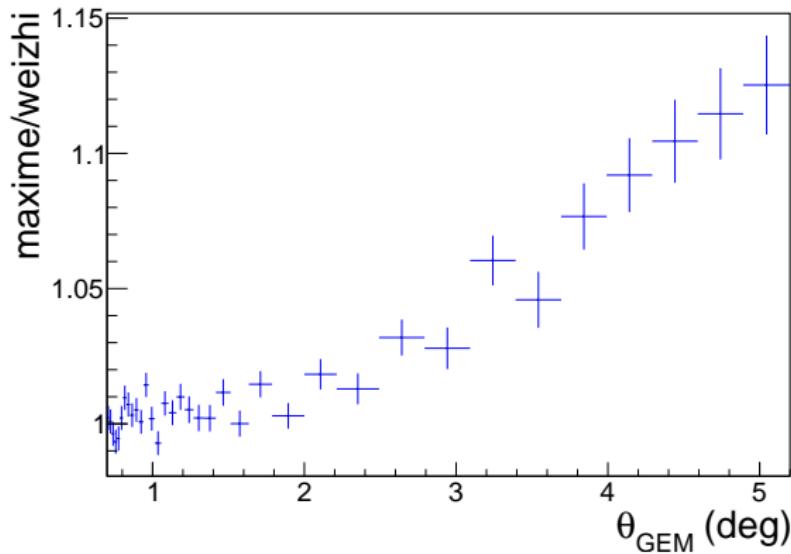
- ▶ Total HyCal energy above 1500 MeV
- ▶ Only one cluster in GEM



GEM θ yields without digitization

Selection

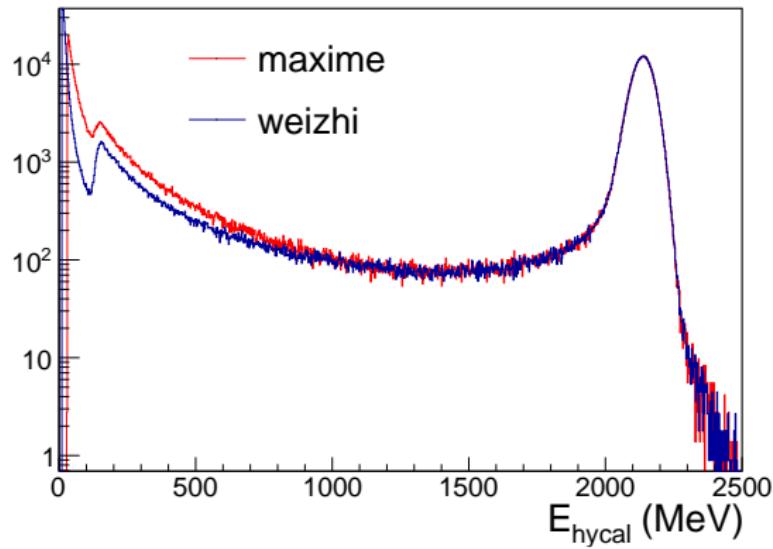
- ▶ Total HyCal energy above 1500 MeV
- ▶ Only one cluster in GEM



Elasticity with digitization

Differences:

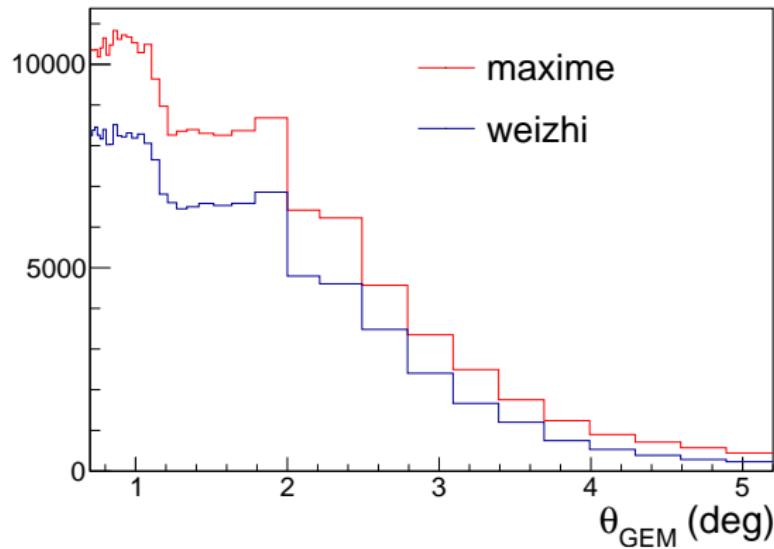
- ▶ cluster energy threshold
- ▶ trigger threshold



GEM θ yields with digitization

Selection

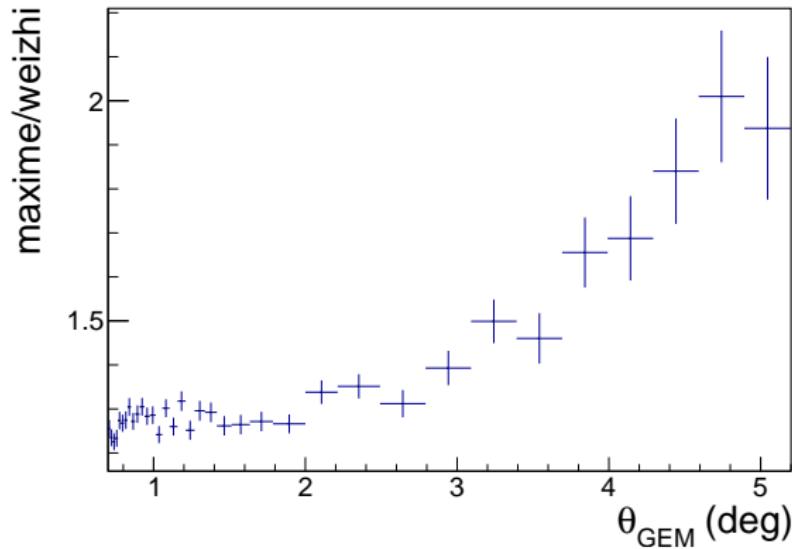
- ▶ 5% elasticity cut
- ▶ Only one cluster in GEM



GEM θ yields with digitization

Selection

- ▶ 5% elasticity cut
- ▶ Only one cluster in GEM



Selection

- ▶ 10% elasticity cut

