

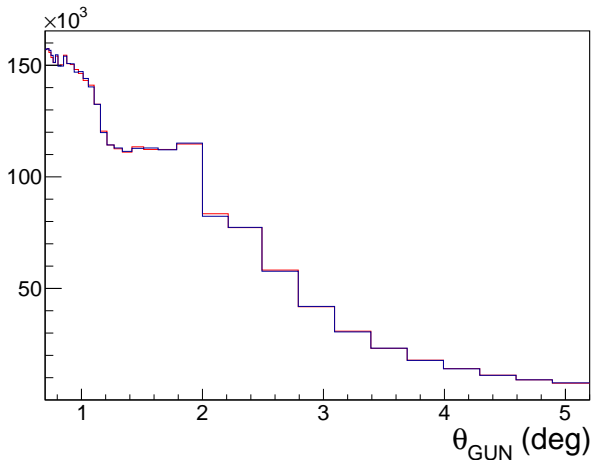
Weizhi/Maxime Simulation Comparison for 2GeV

Maxime Levillain

July 14, 2017

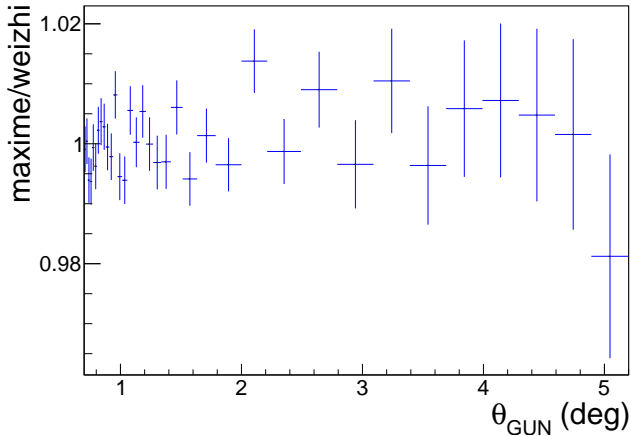


Selection: $E_j 1500$



Difference: start from 0.4 or 0.5 degree

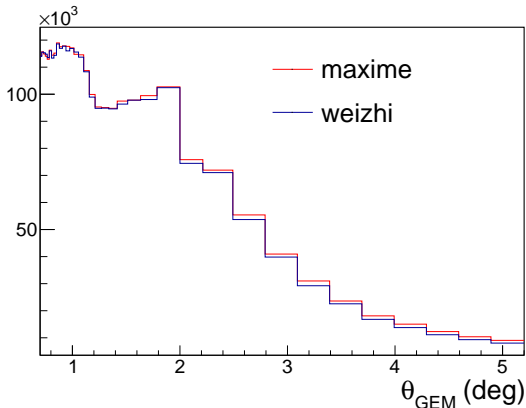
Selection: $E_j 1500$



→ 1% level discrepancy

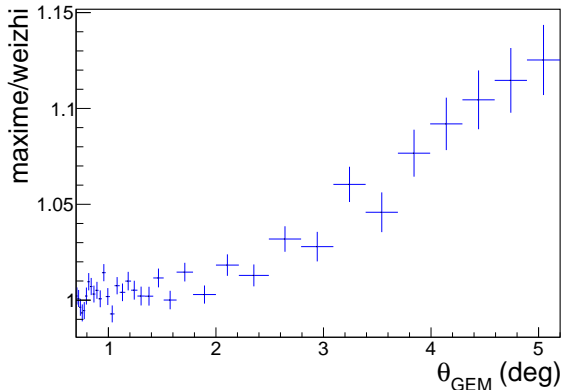
Selection

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



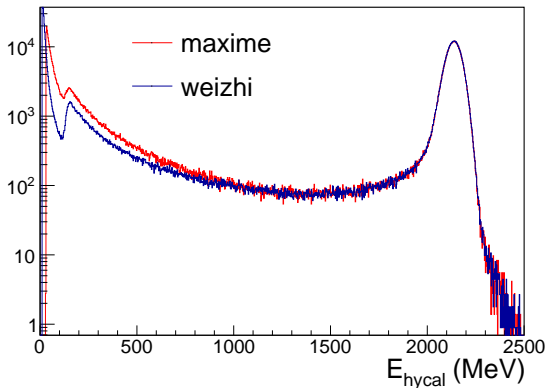
Selection

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



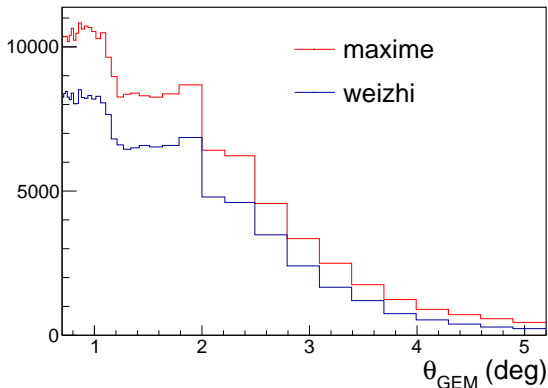
Differences:

- ▶ cluster energy threshold
- ▶ trigger threshold



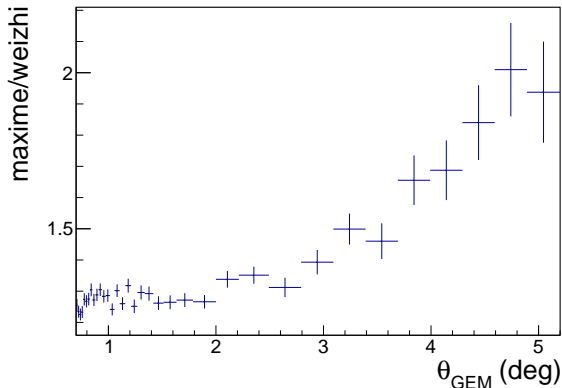
Selection

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



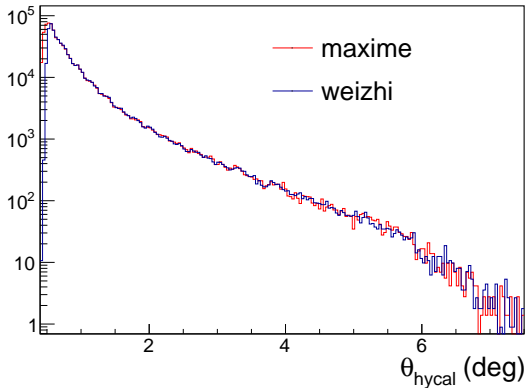
Selection

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



Selection

- ▶ 10% elasticity cut



- ▶ Some discrepancies due to (the ones that are identified):
 - ▶ trigger threshold
 - ▶ cluster energy threshold
 - ▶ lower θ range
- ▶ Same trend as data/sim
- ▶ Trend increased after digitization