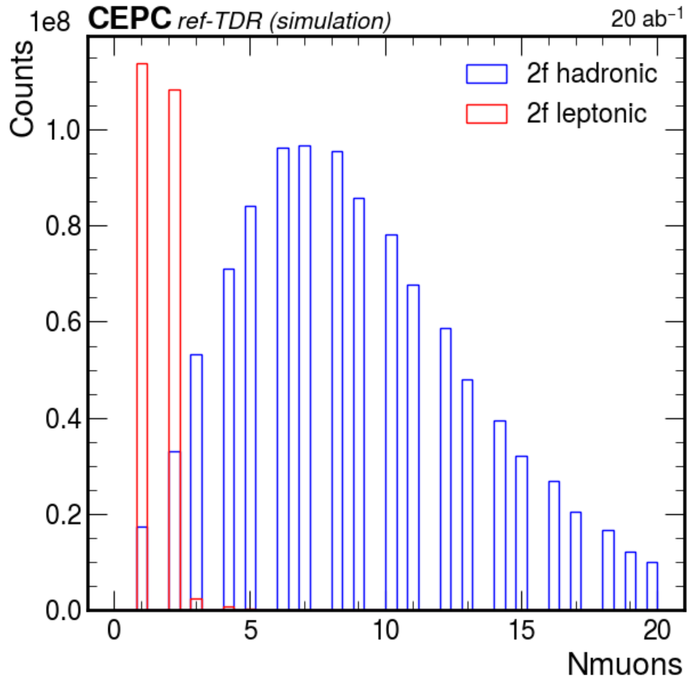
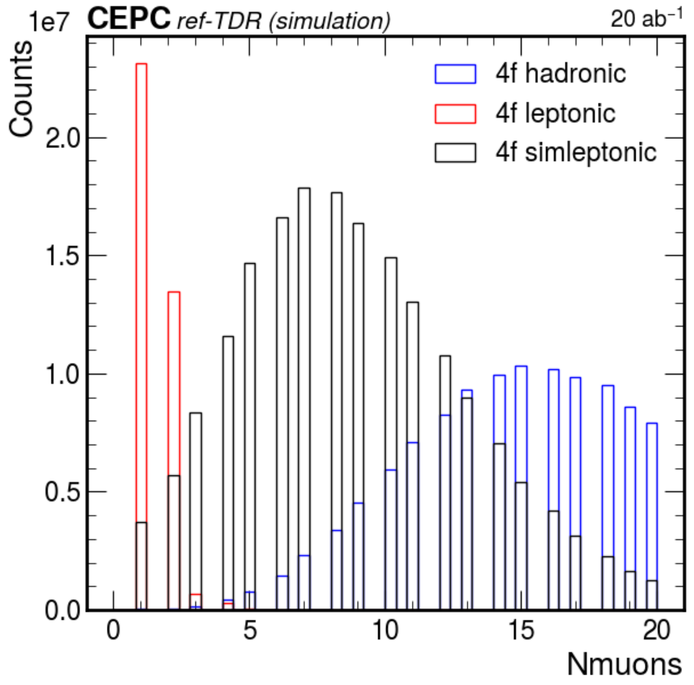
$$Z \to \mu\mu \ @\sqrt{s} \ = \ 240 \ \mathrm{GeV}$$

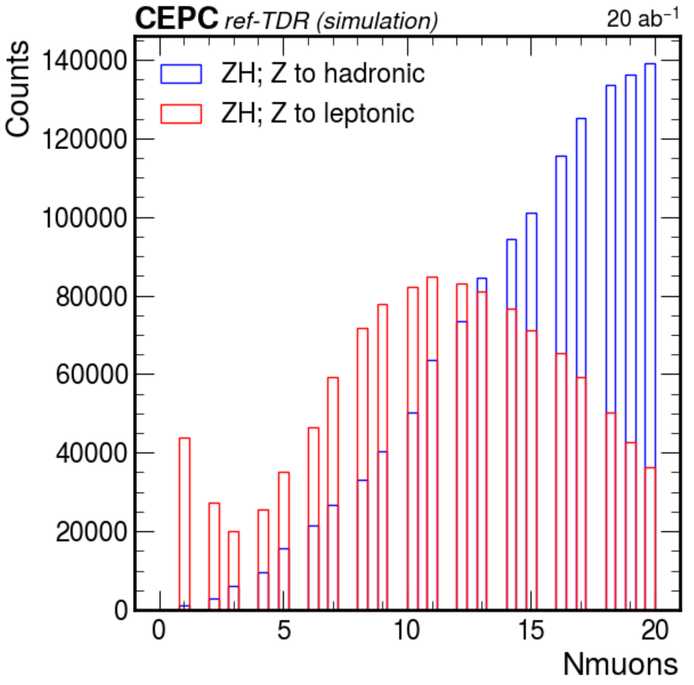
C.Zhang/07Mar2025

$Z \to \mu\mu @ \sqrt{s} = 240$ GeV

- Single ZorW process is not included
- PID package from Geliang, muID 98% working point
- Only one criterial: N_muons = 2 & opposite charge

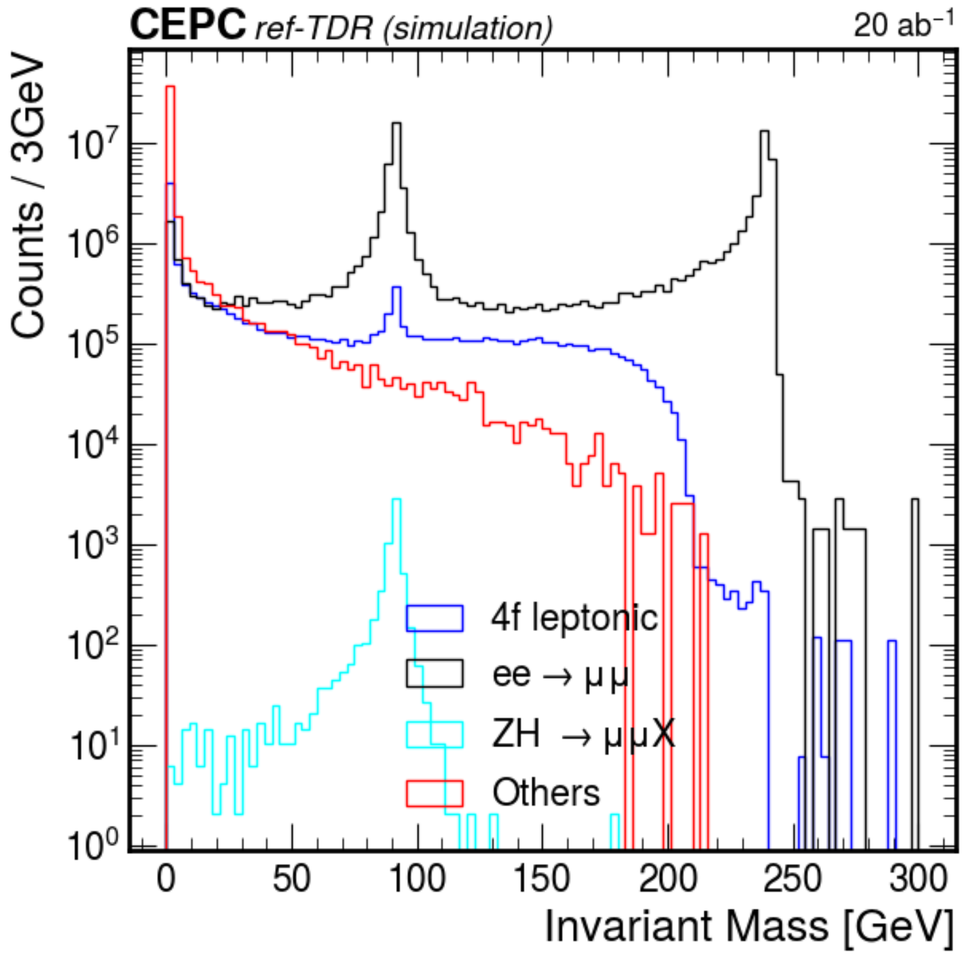


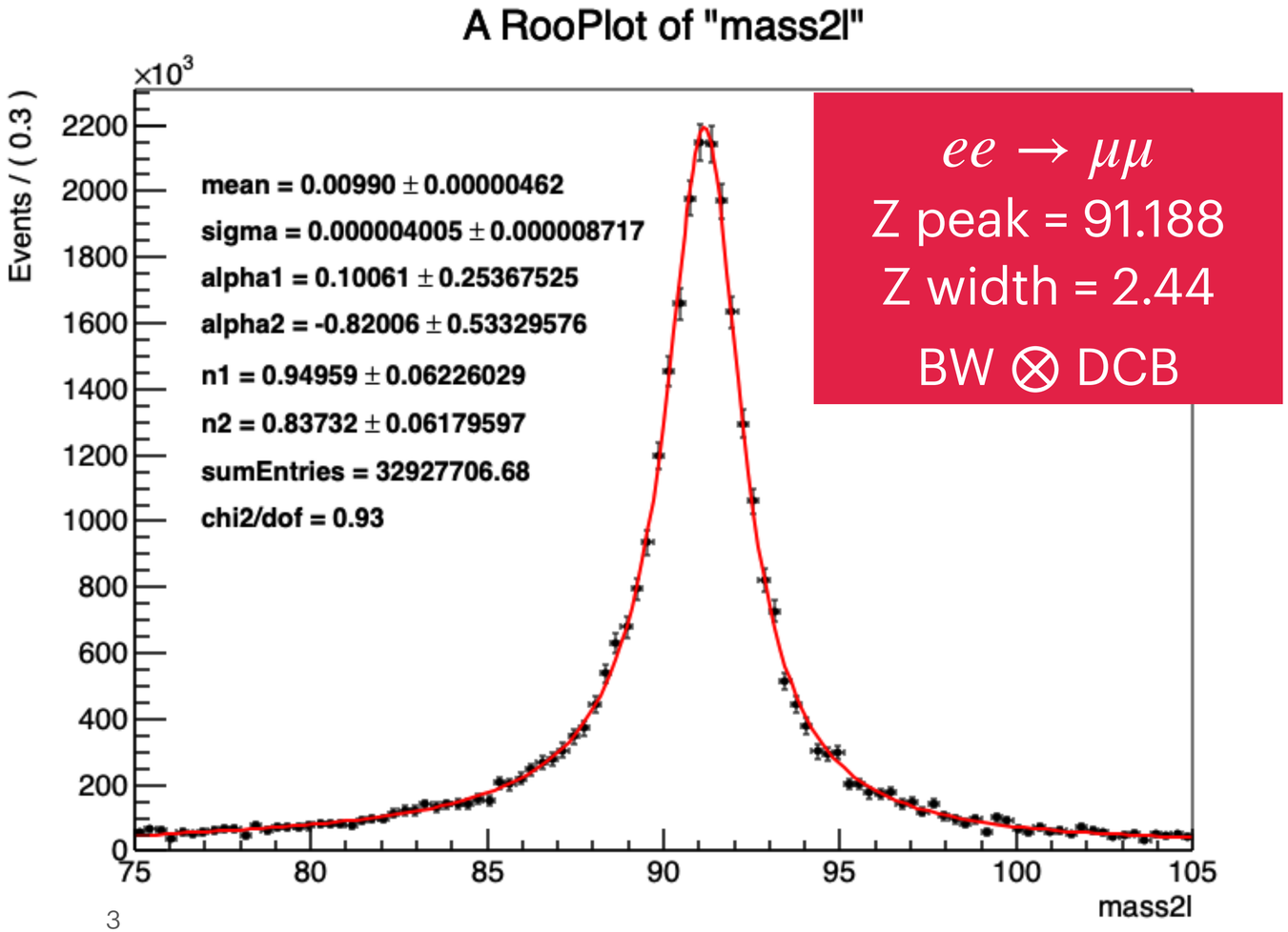




$Z \to \mu\mu @ \sqrt{s} = 240$ GeV

- Visible Z peaks
  - $ee \to \mu\mu$ efficiency : 83M/106M ≈ 0.77

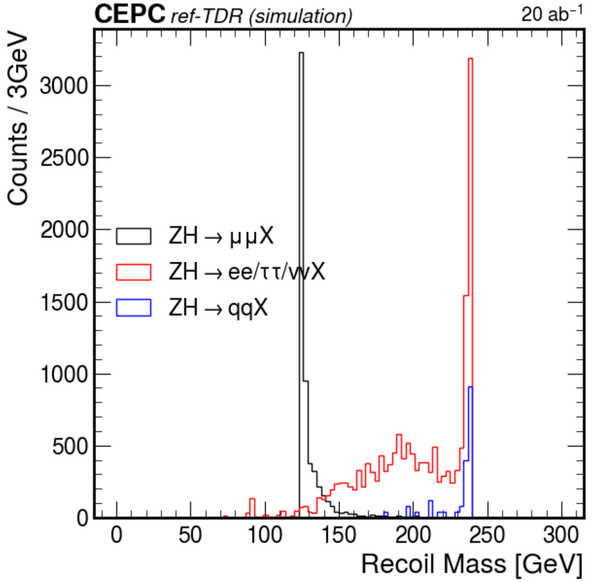


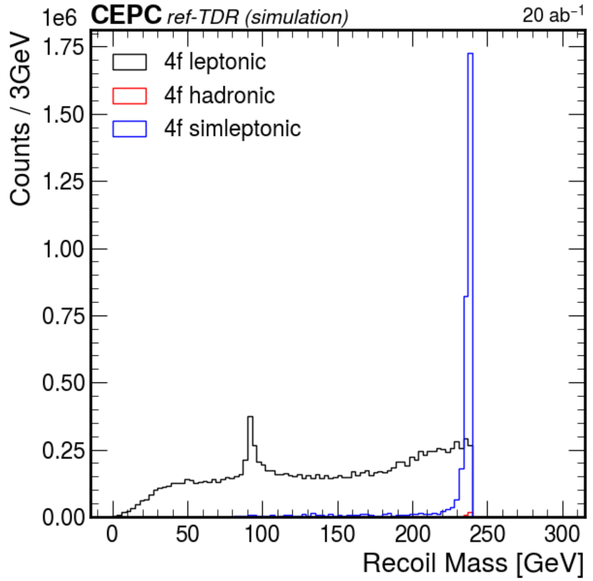


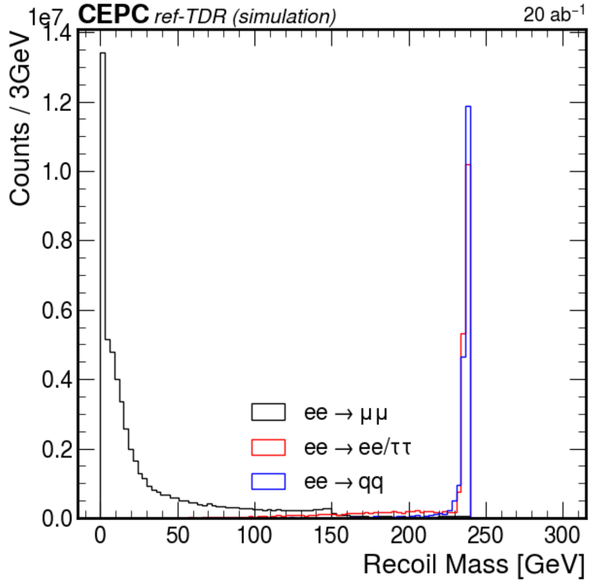
$ee \to \mu\mu$
Z peak = 91.188
Z width = 2.44
BW ⊗ DCB

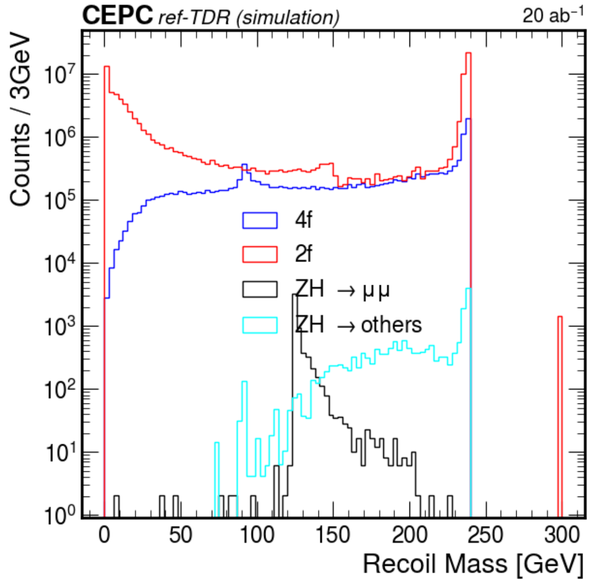
$Z \to \mu\mu$ recoil mass @$\sqrt{s} = 240$ GeV

- Due to naive event selection, the peak of recoil mass is not visible
- In progress...









Off-IP tracking efficiency