

# CEPC Jet&Clusters

Kaili Zhang

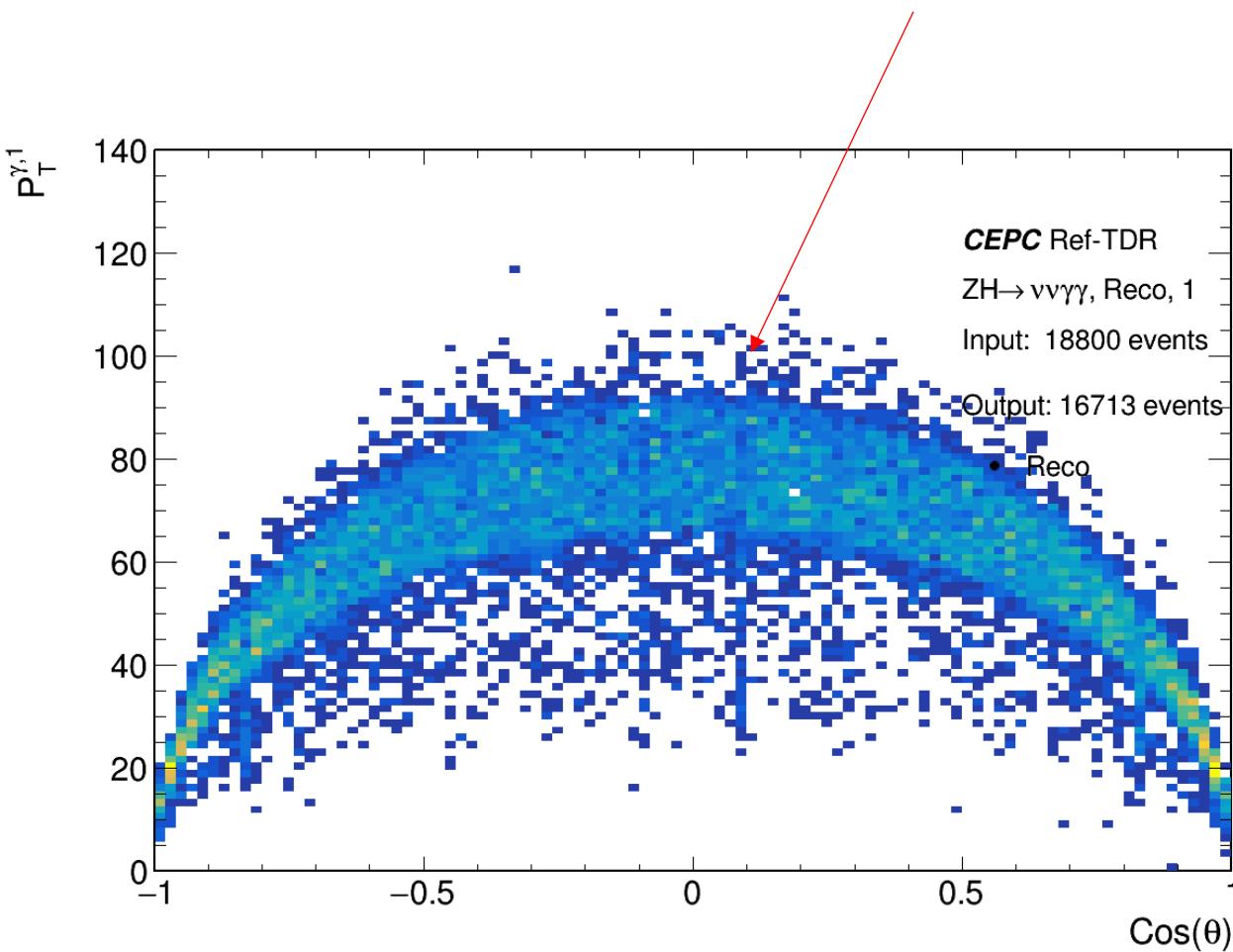
IHEP

[zhangkl@ihep.ac.cn](mailto:zhangkl@ihep.ac.cn)

# Quick look at Endcap

- Latest Release 25.01.
- Memory usage: sim, digi, trk ~6GB. rec: 8GB.
- Path: /cefs/higgs/zhangkl/Production/2501

Cos theta=0.1 crack?

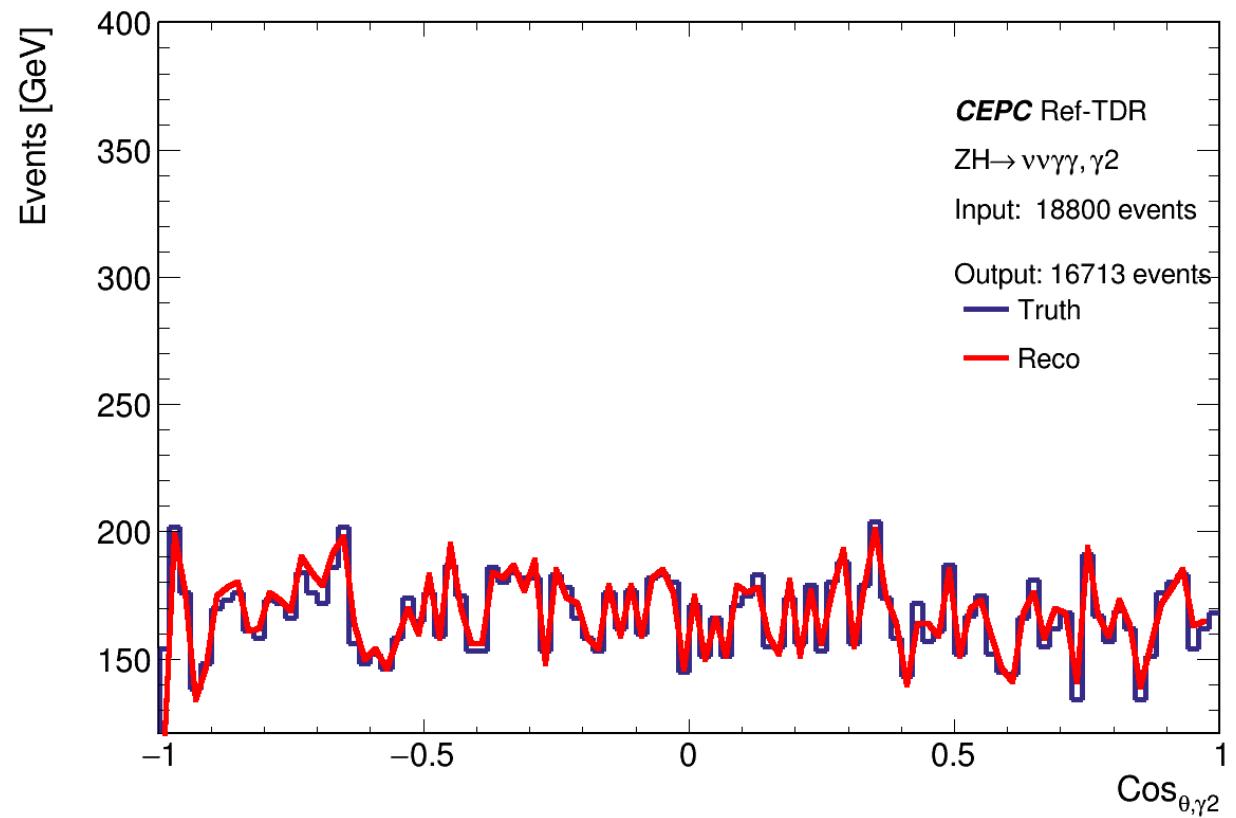
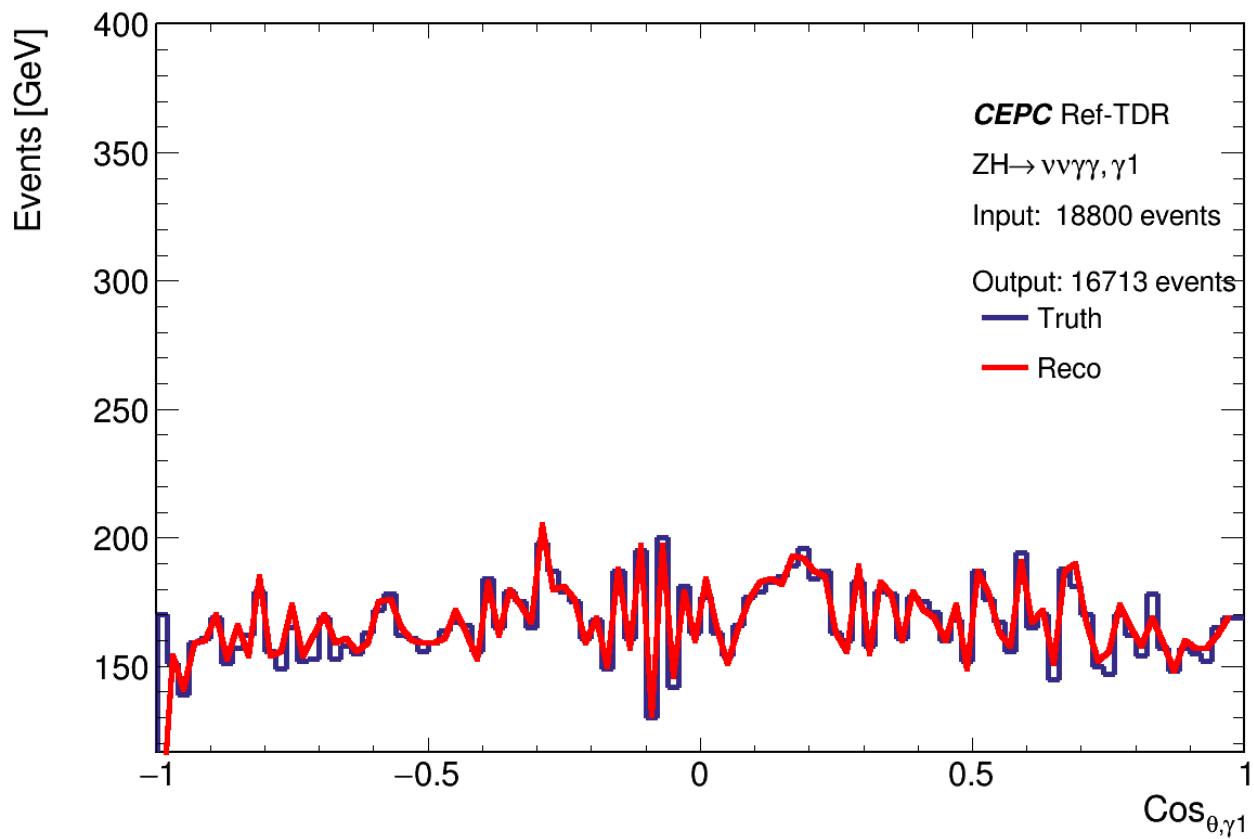


- We have the endcap response.
- Continuum costheta distribution and no crack  $\sim 0.85$ .

# Truth/Reco photon cos theta

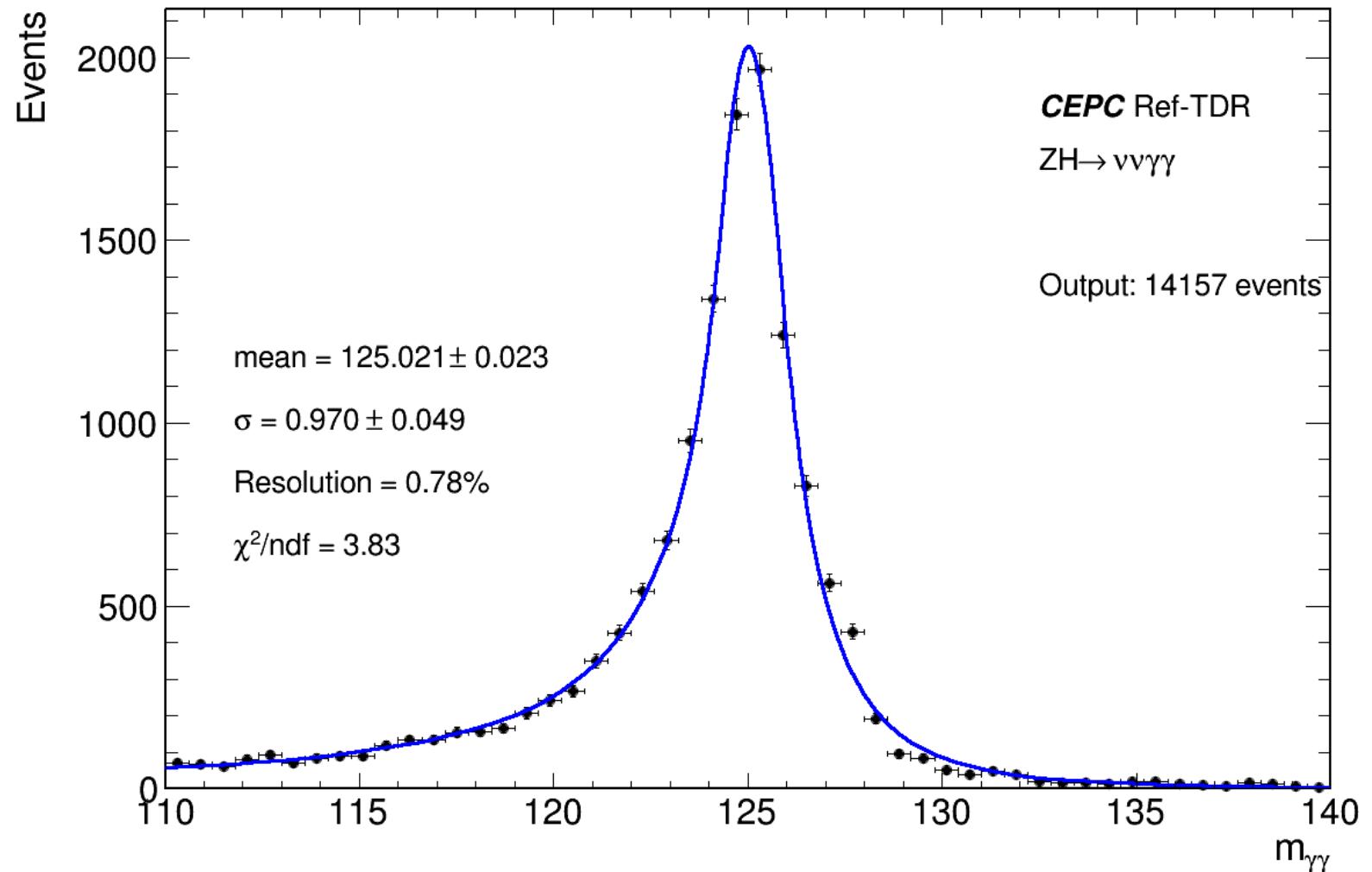


Reco costheta reach to ~0.97, 0.98.



# M<sub>yy</sub> resolution

Barrel + Endcap

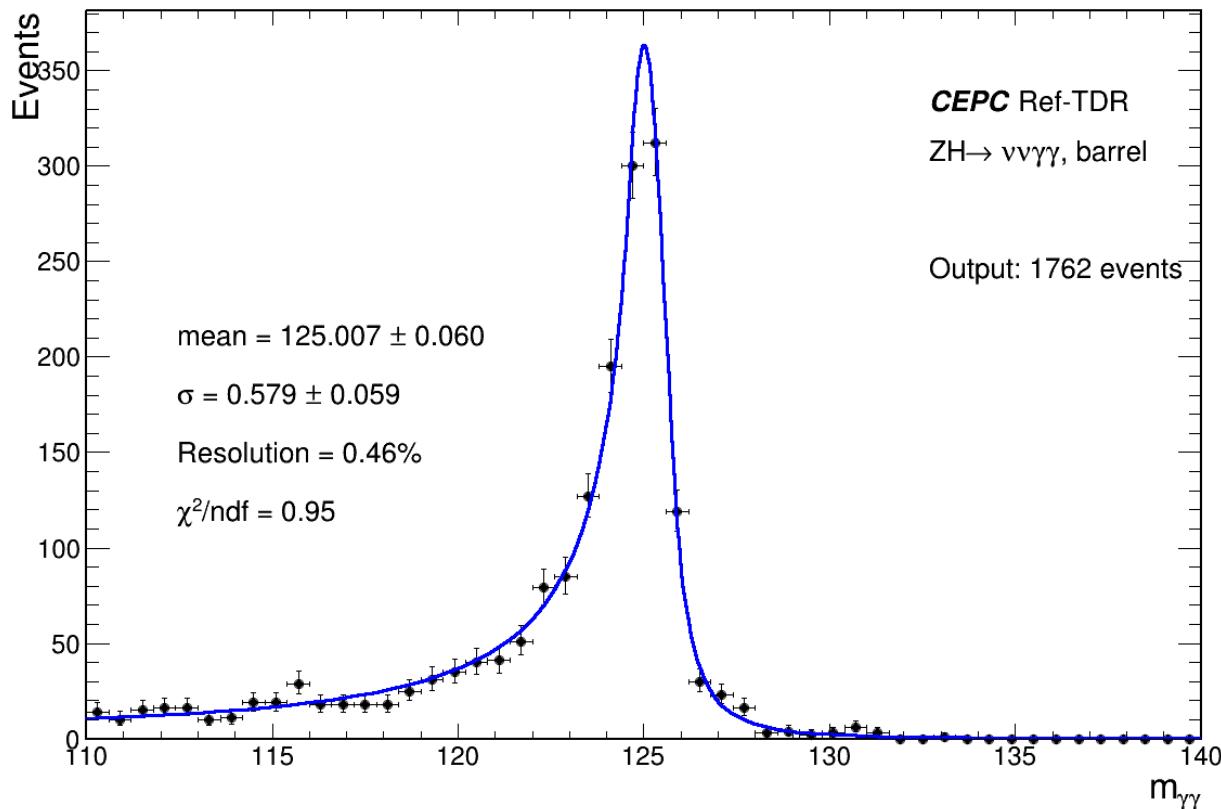


# Barrel resolution

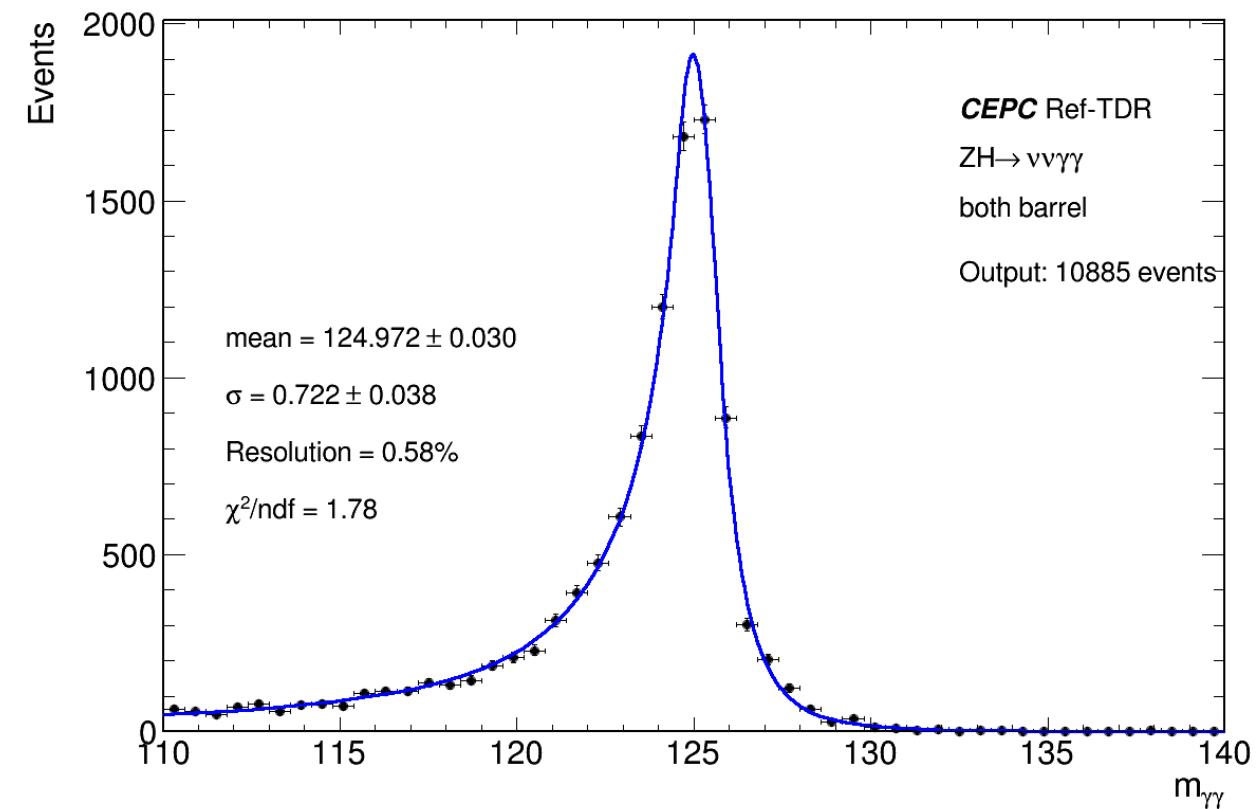


Both  $\gamma_1, \gamma_2$   $\text{costheta} < 0.85$

Before tdr25.1, only barrel



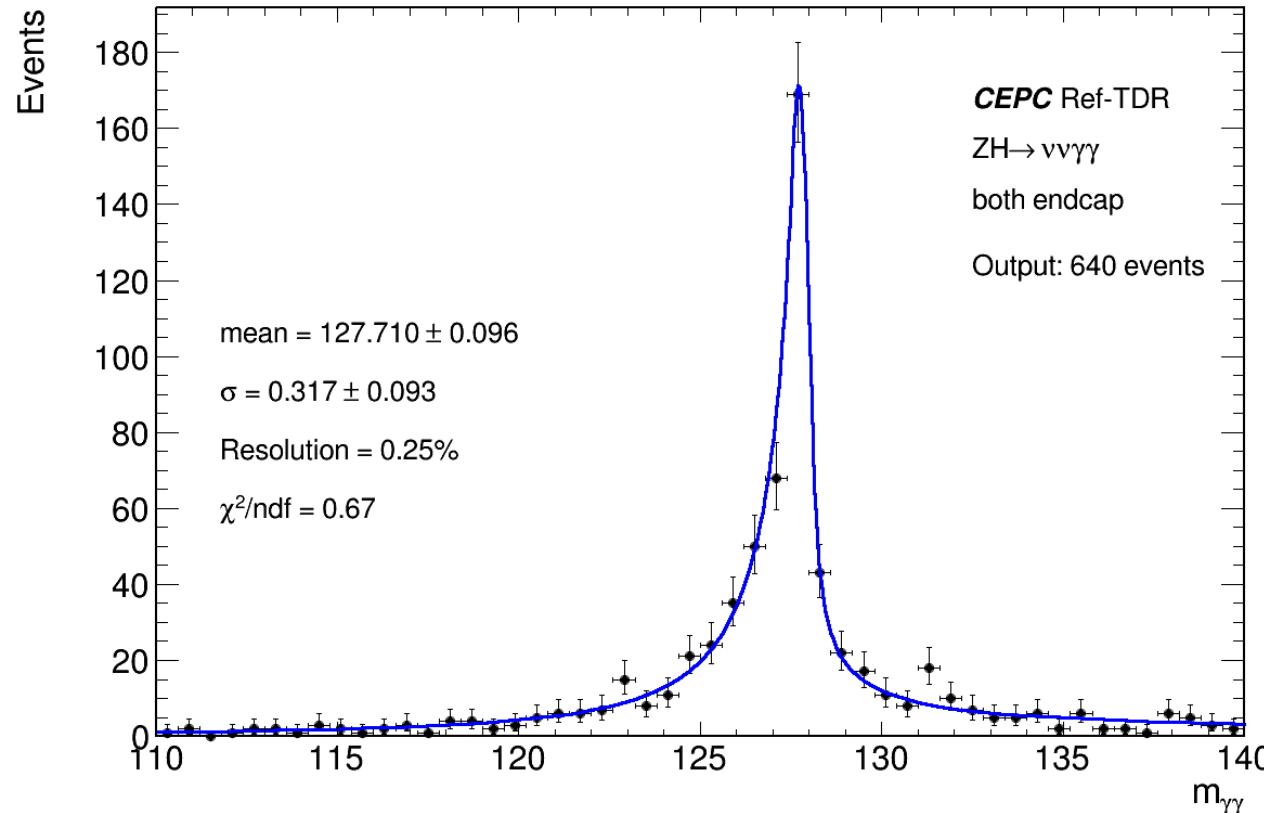
Latest



From PFA group, barrel BMR reduced from 3.8% to 4.2%. Also found in diphoton channel. By 25%.

# Endcap resolution

Both  $y_1, y_2 \cos\theta > 0.85$



- Endcap with better resolution.
  - Better than barrel
- Right side tail
- Mean value->Calibration.
- We have endcaps. But may need further validations.