

status

Yu Zhang

04.04

resolved $Z(qq)\gamma$

2

- EXOT6
- Trigger:HLT_g120_loose
- GRL(some data samples don't have CollectionTree, but they are not in GRL), Detector Quality, PV

BUGS with MC!!!

- Photons:
 - calibration, IsoCorrection **401150 events remaining in data**
 - Author, OQ, Ambiguity
 - $p_T > 100\text{GeV}$, $|\eta| < 2.37$, exclude crack region
 - TruthMatch
 - ✓ match with a photon not from hadron
 - Isolation
 - ✓ $\text{topoetcone40} < 0.022 * E_t + 2.45$
 - Tight
- Jets
 - calibration
 - $p_T > 50\text{GeV}$, $|\eta| < 4.4$
 - JVT > 0.64
- OverlapRemoval

Saved variables

Photon

pt, eta, phi, e, topoetcone40,
ptcone20
isTight

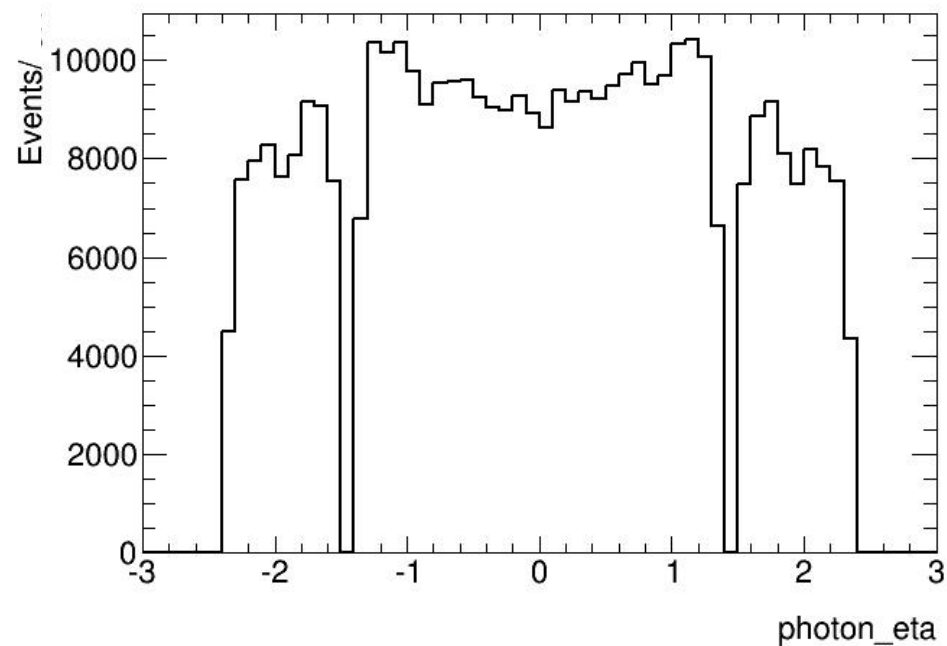
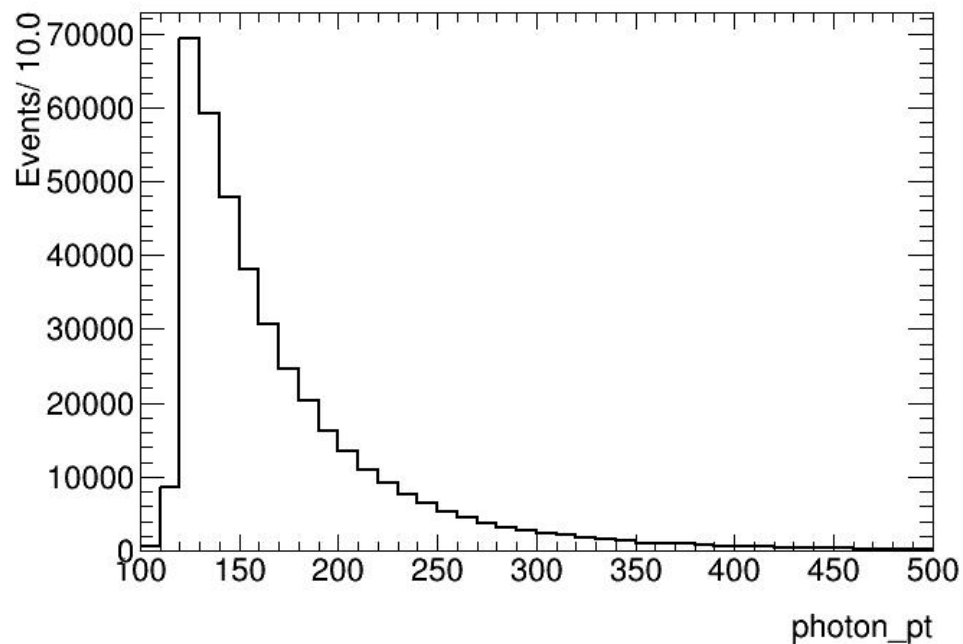
Jet

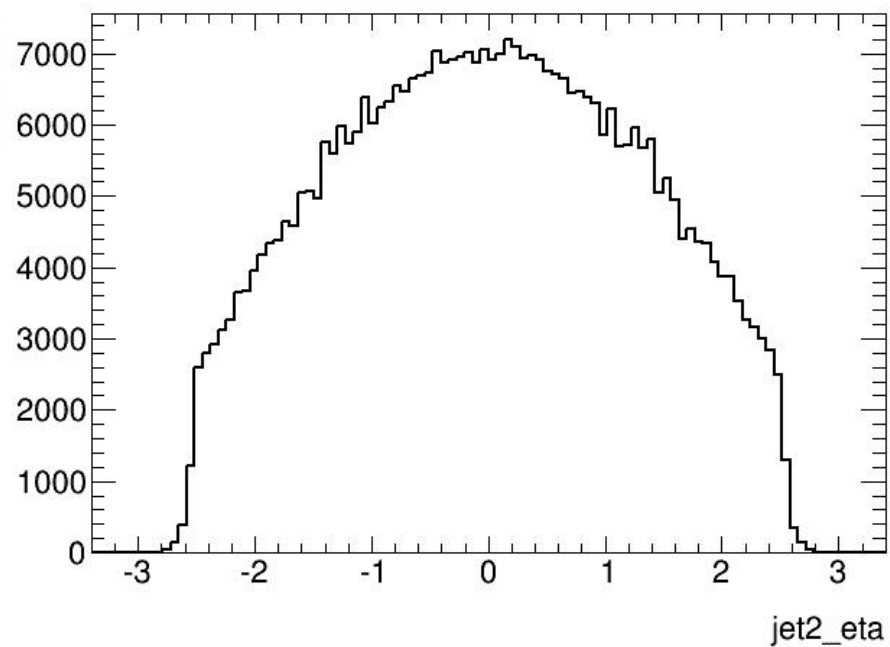
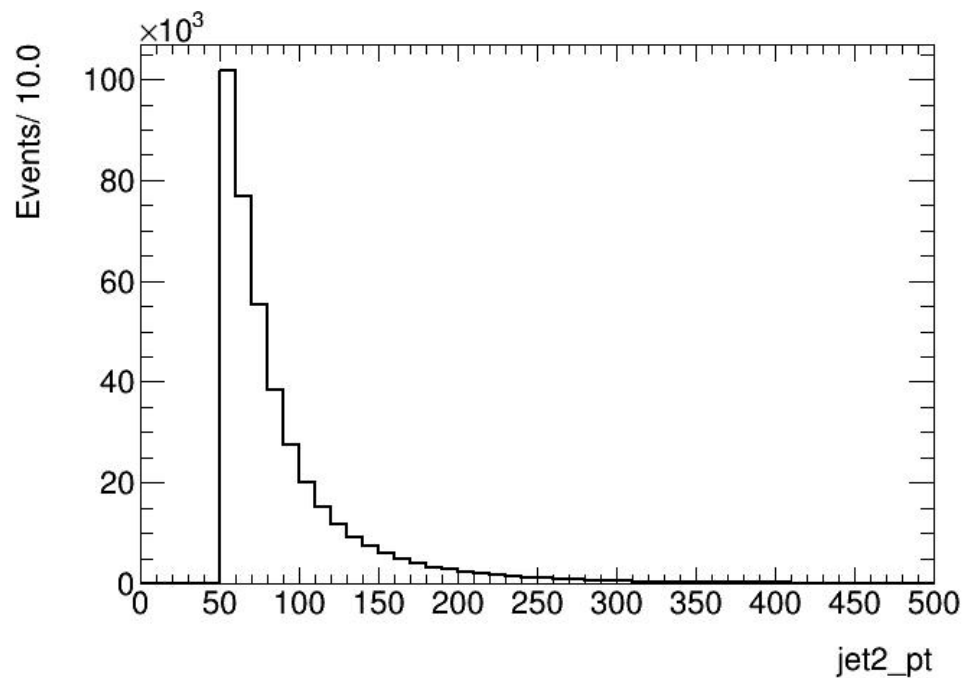
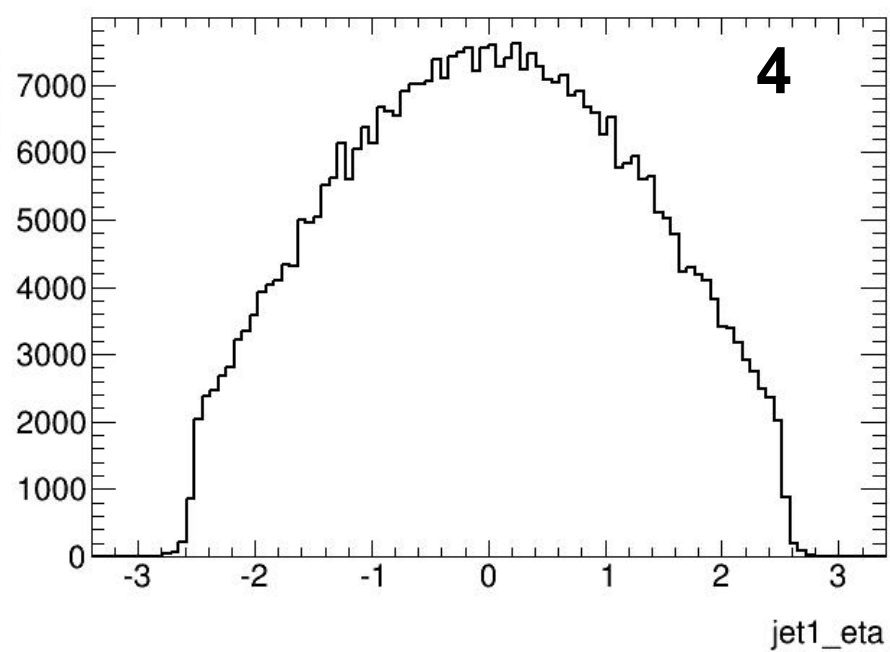
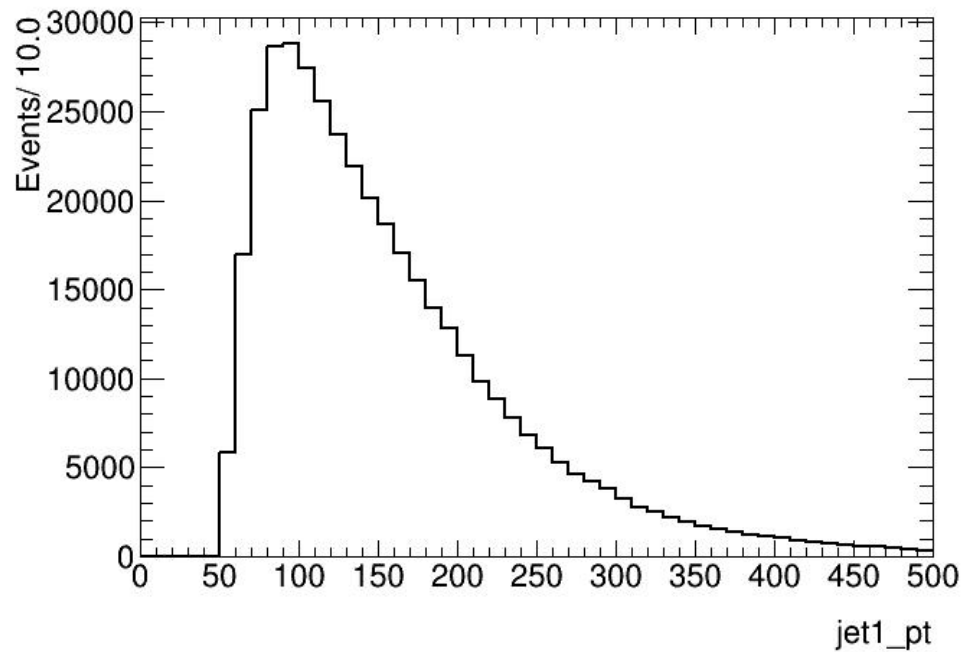
pt, eta, phi, e
JVT

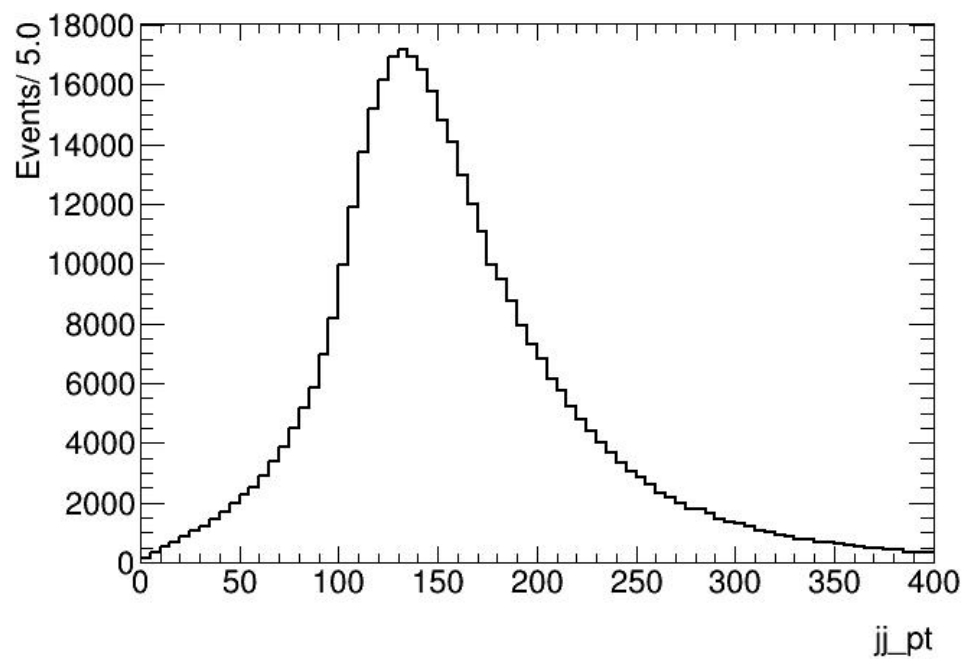
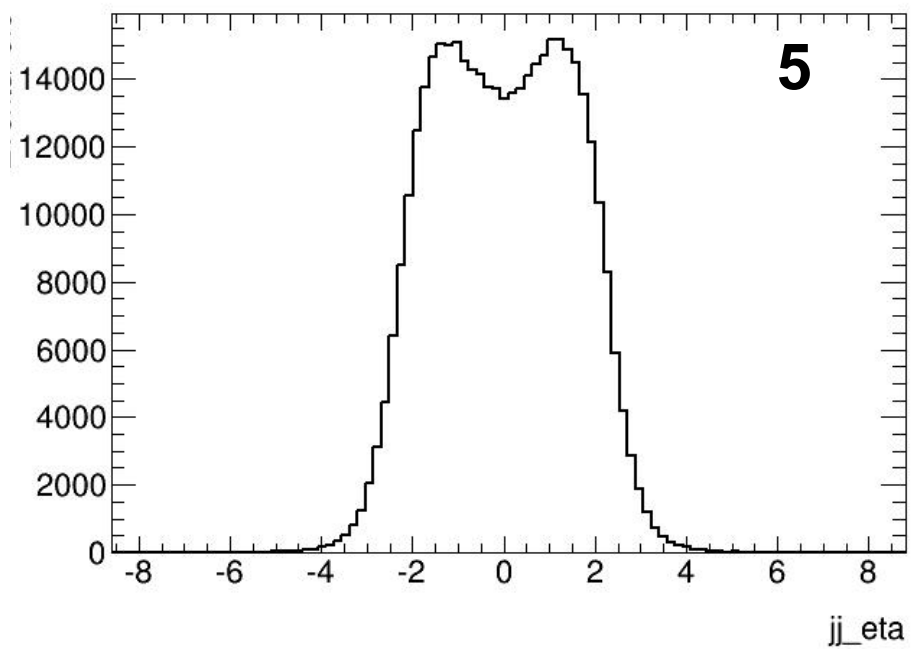
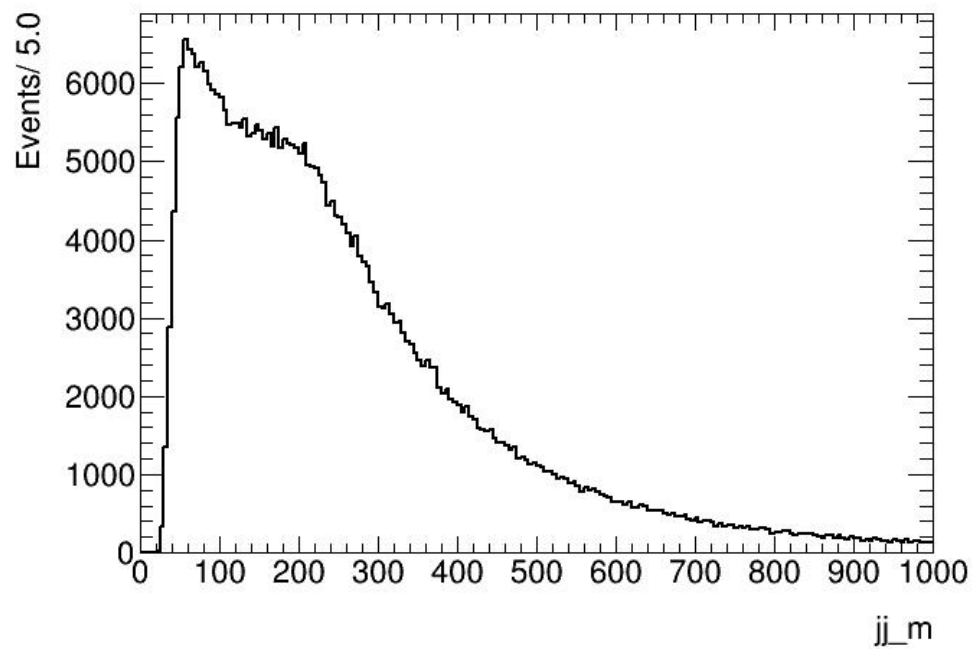
.....

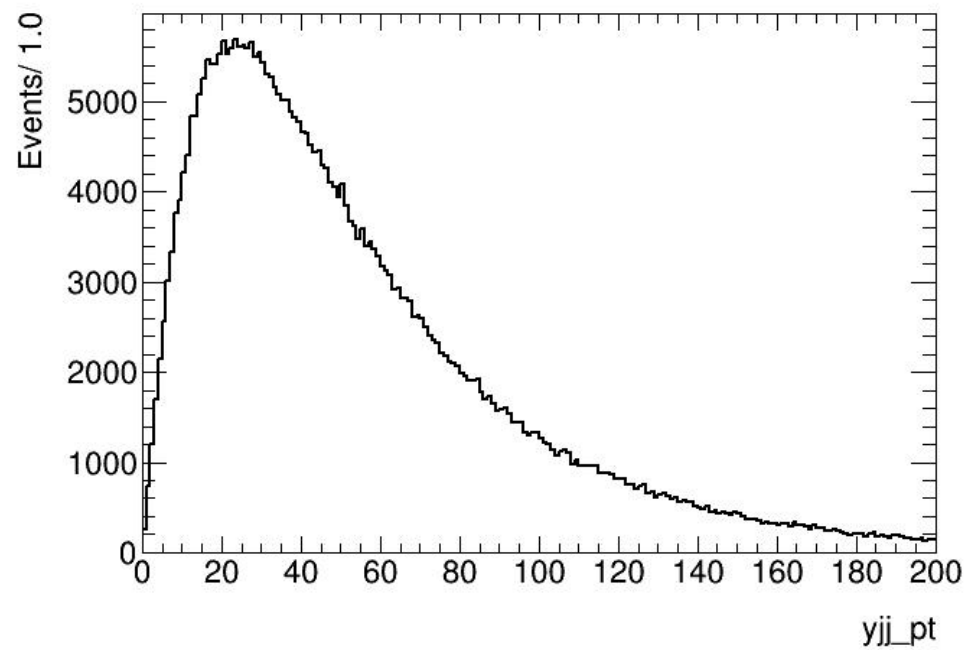
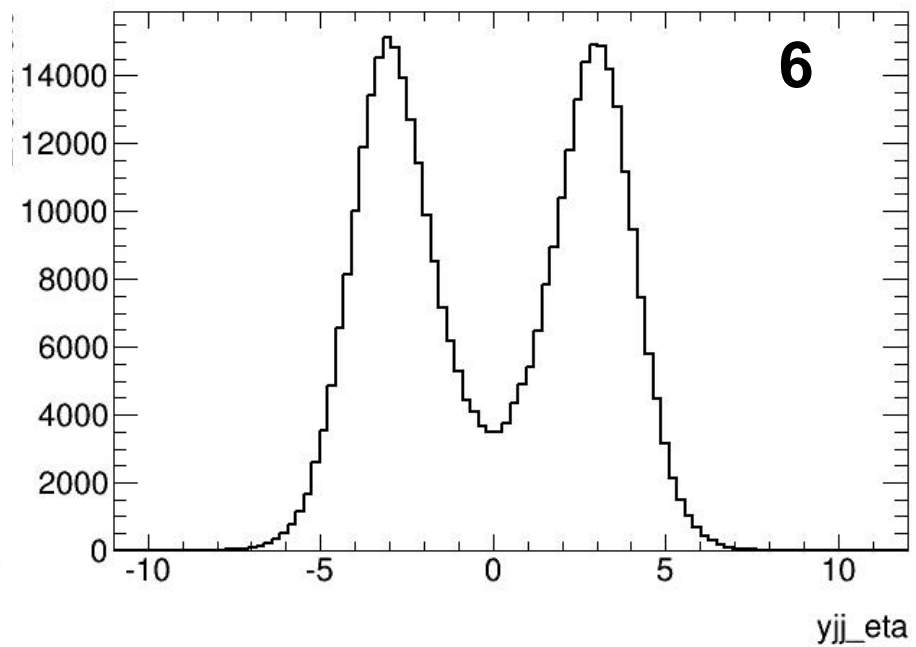
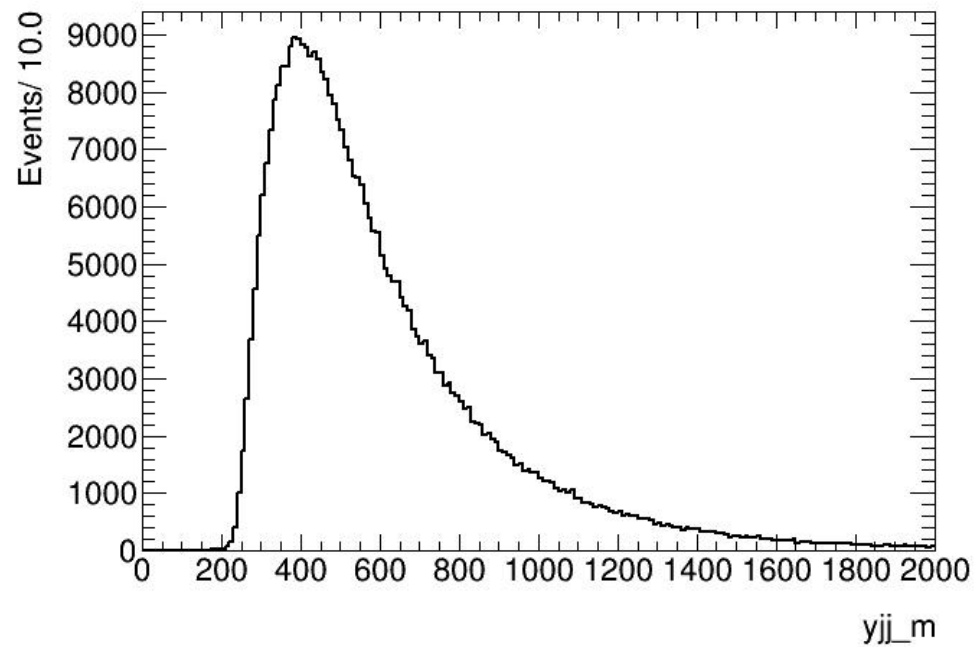
kinematics

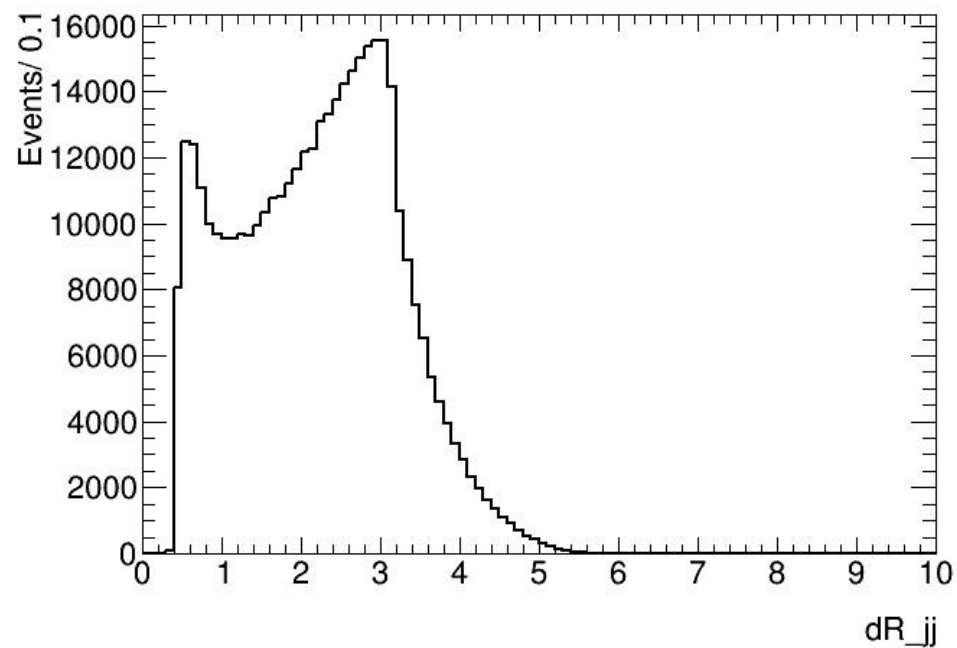
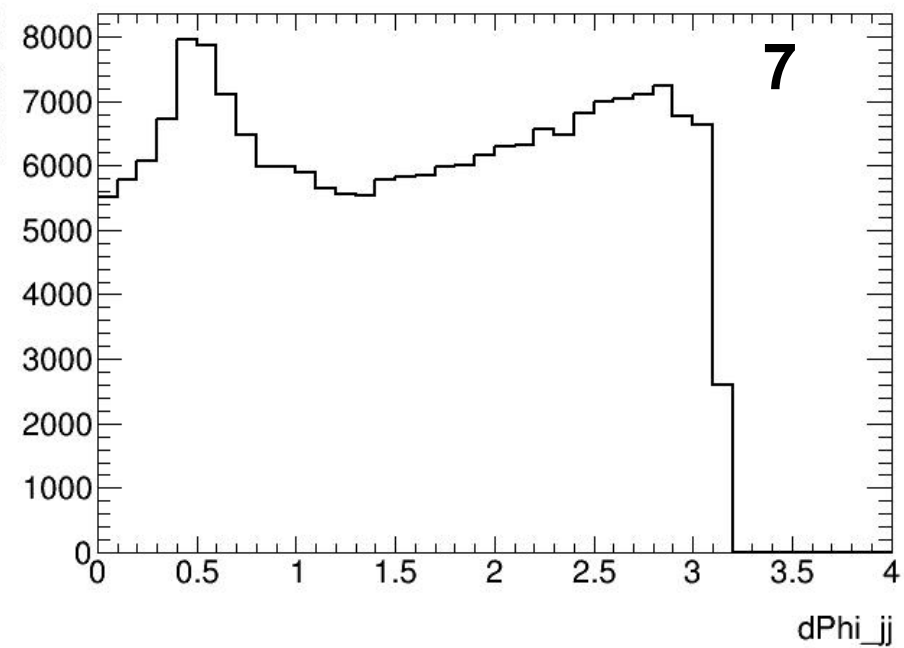
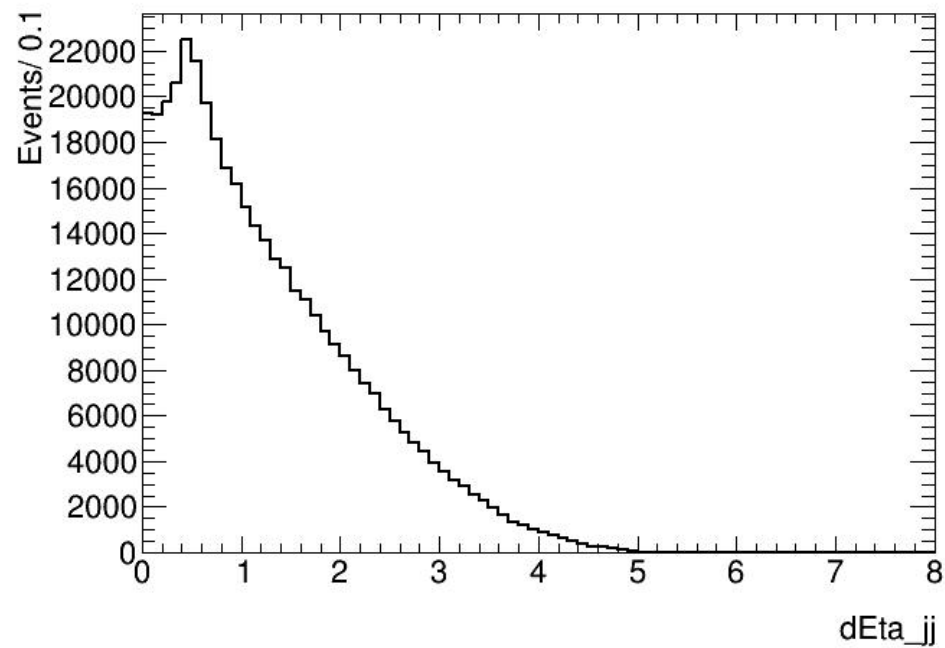
3

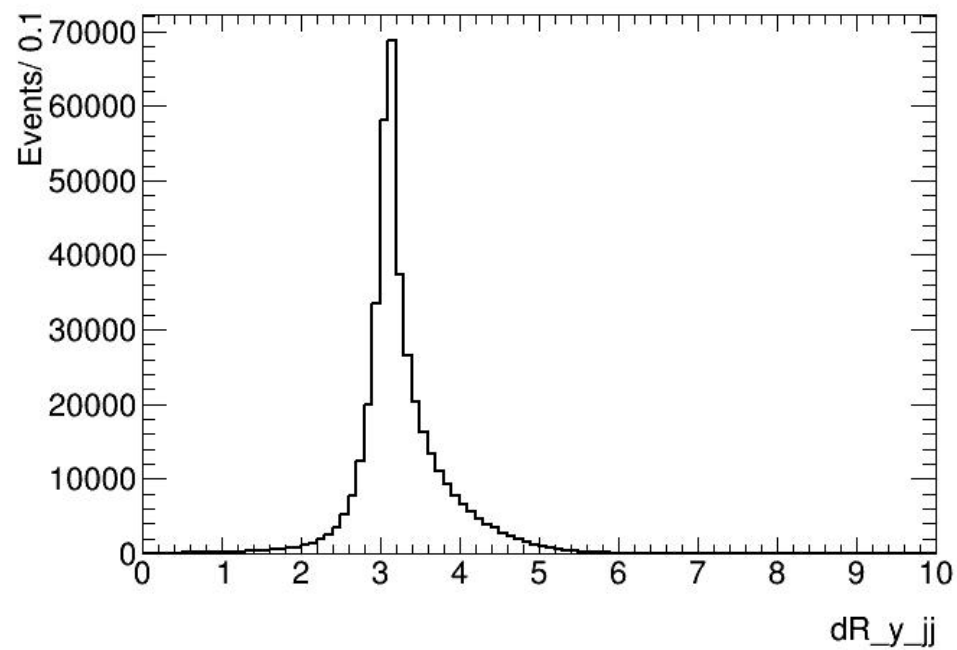
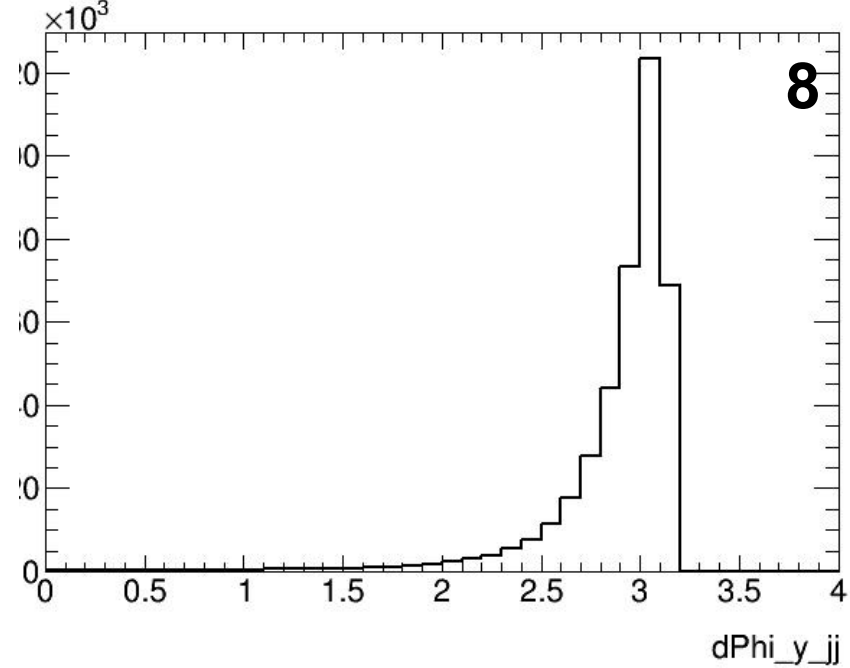
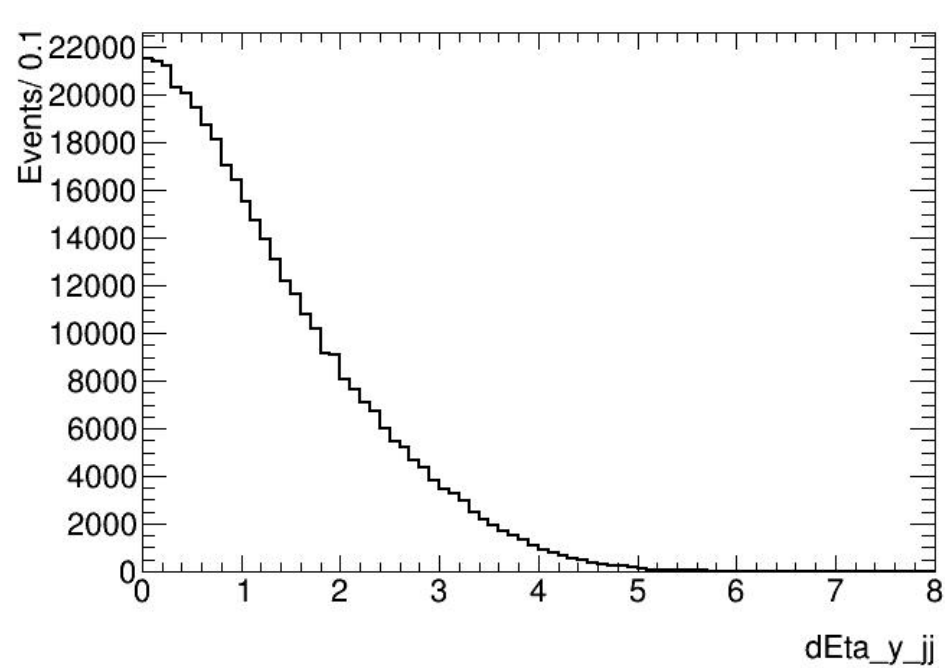












to do list

9

- High Mass diphoton
 - combine the control region
- Zgam
 - fix the bug
- VBF
 - systematic?
- Qulification