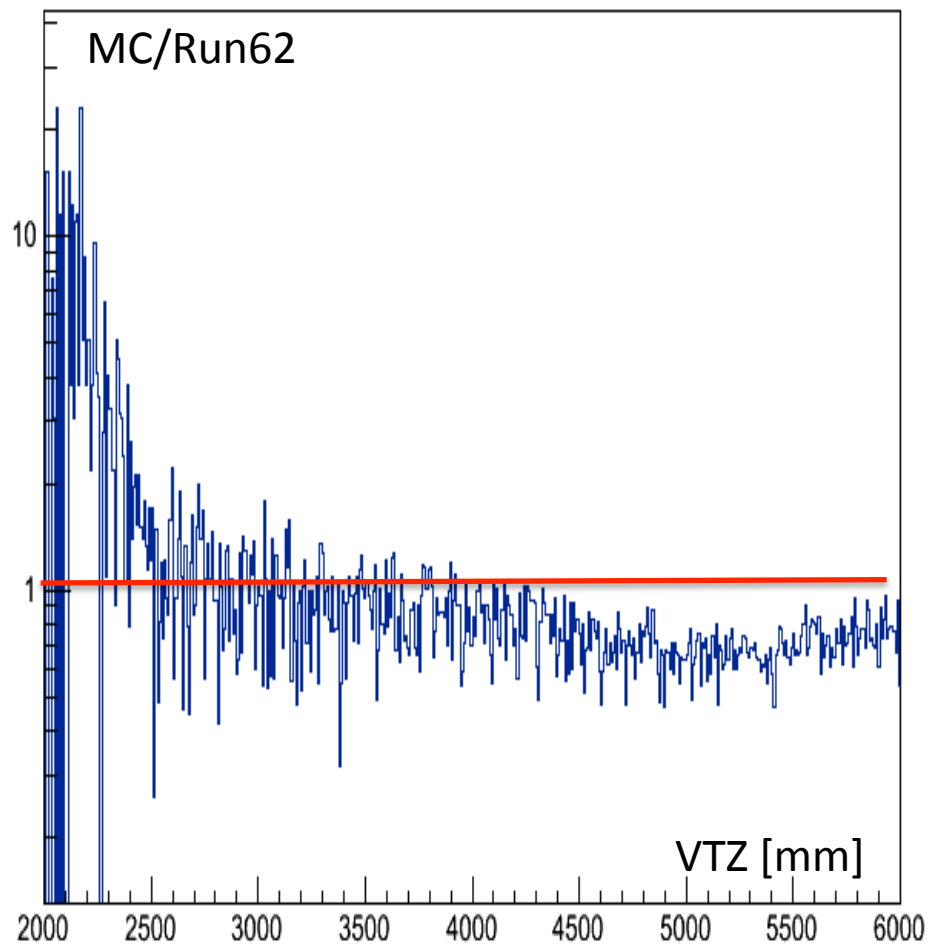
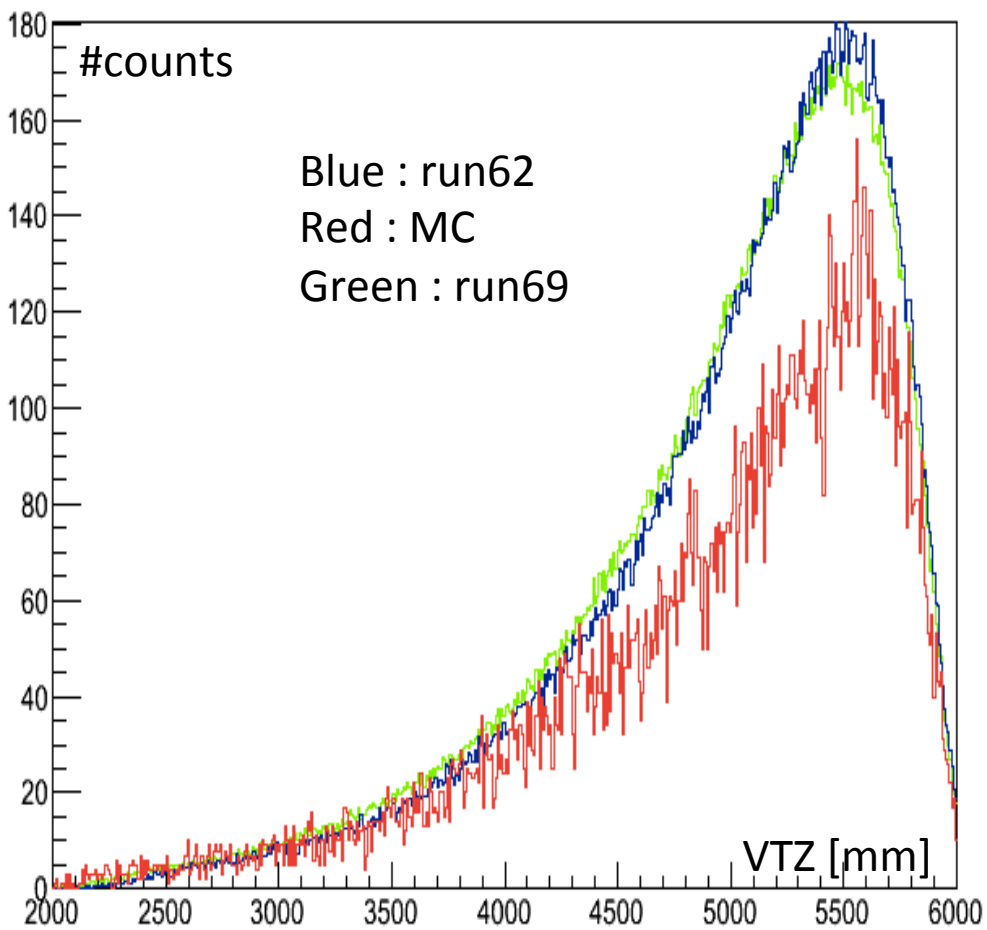


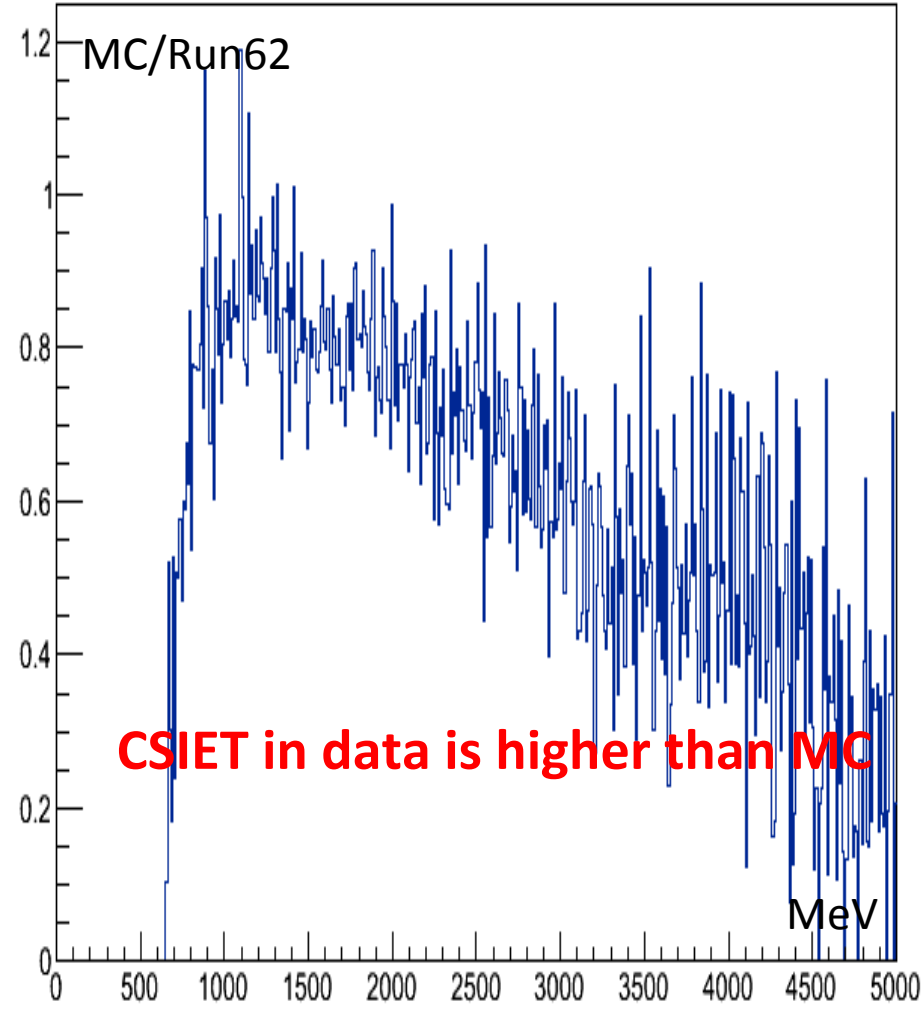
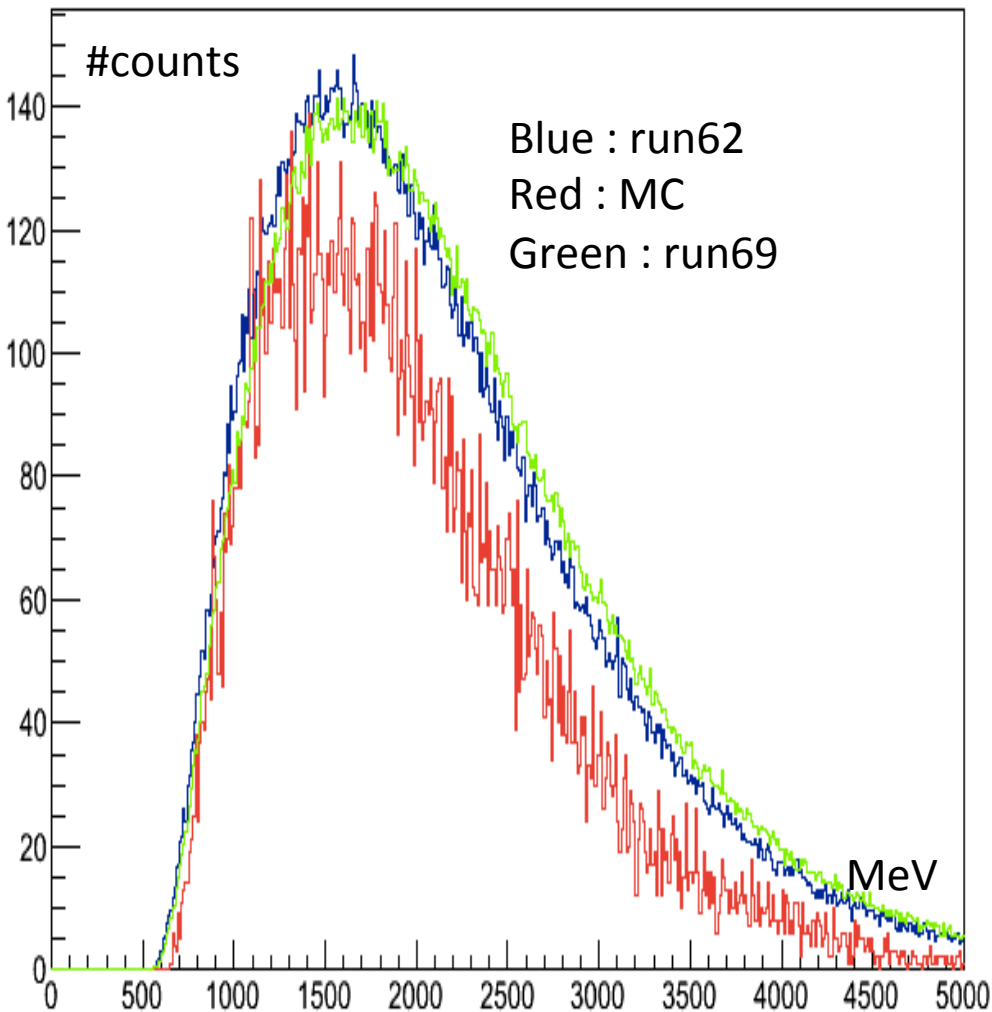
reports

Vertex Z check



CSI ET threshold effect

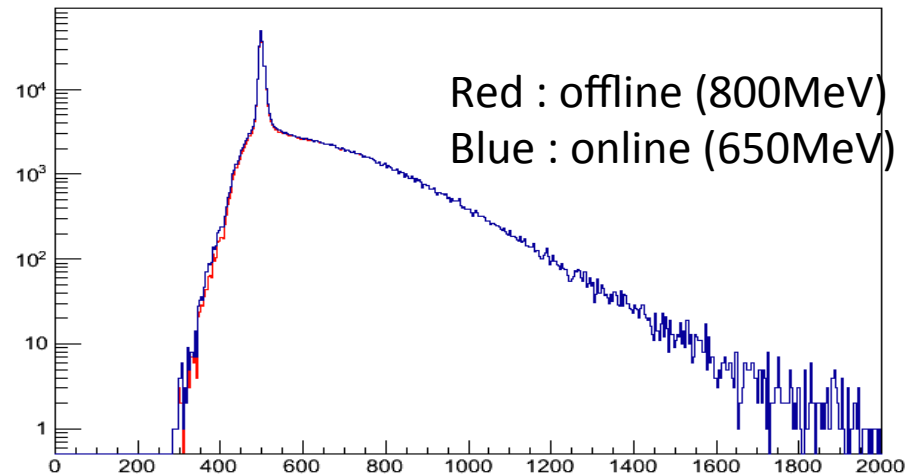
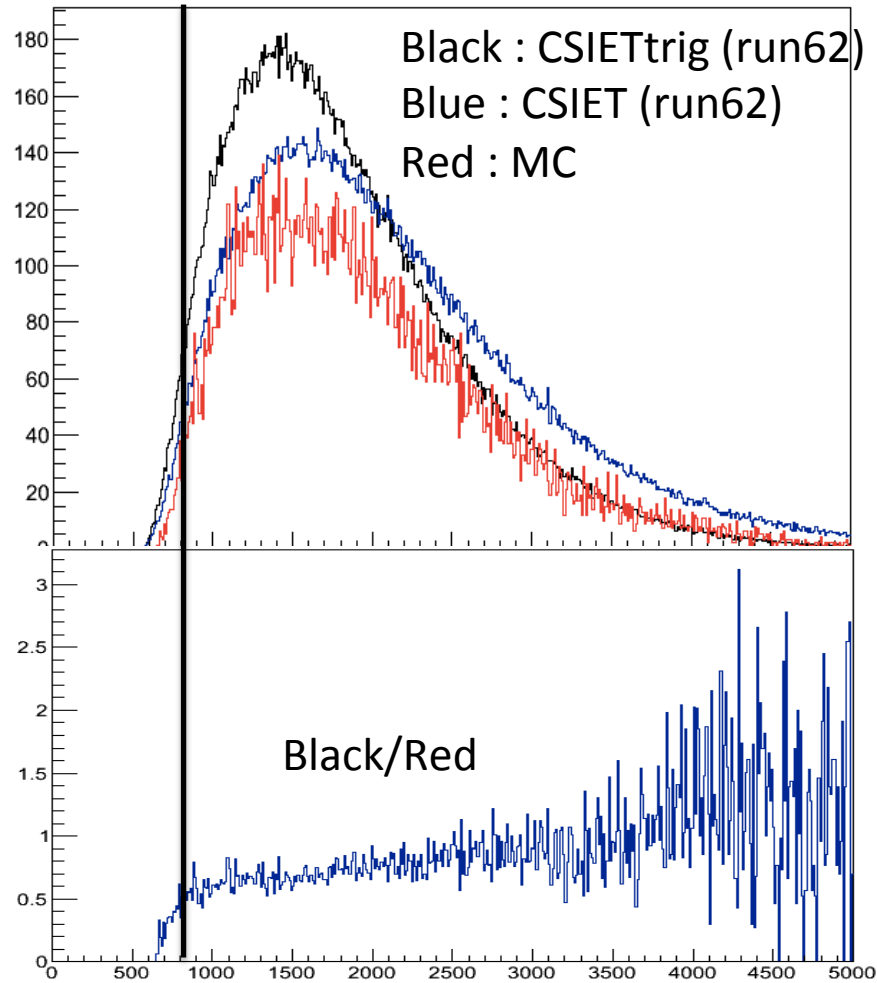
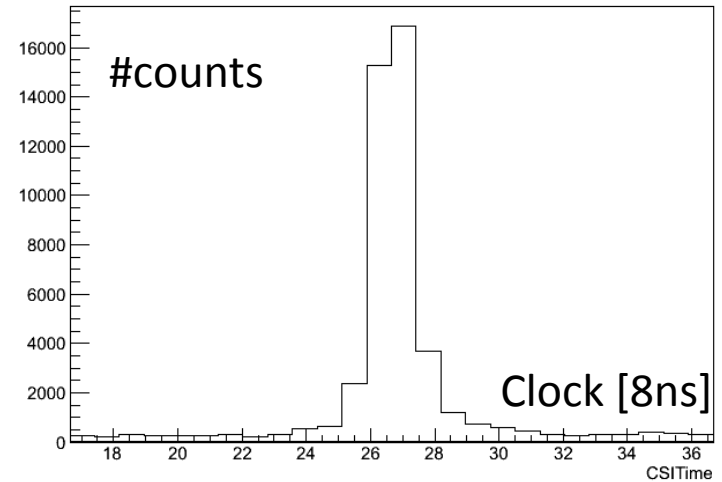
- Enhance ET threshold in offline.



CSIETtrig

- CSIET in trigger timing only.
 - 24~30[*clock*]

CSITime { TRIGGERTAGIntegratedADC[1]<1e2}



After offline cut, (>800MeV)

Run62 : 28094 -> 27520

Run69 : 28640 -> 28090

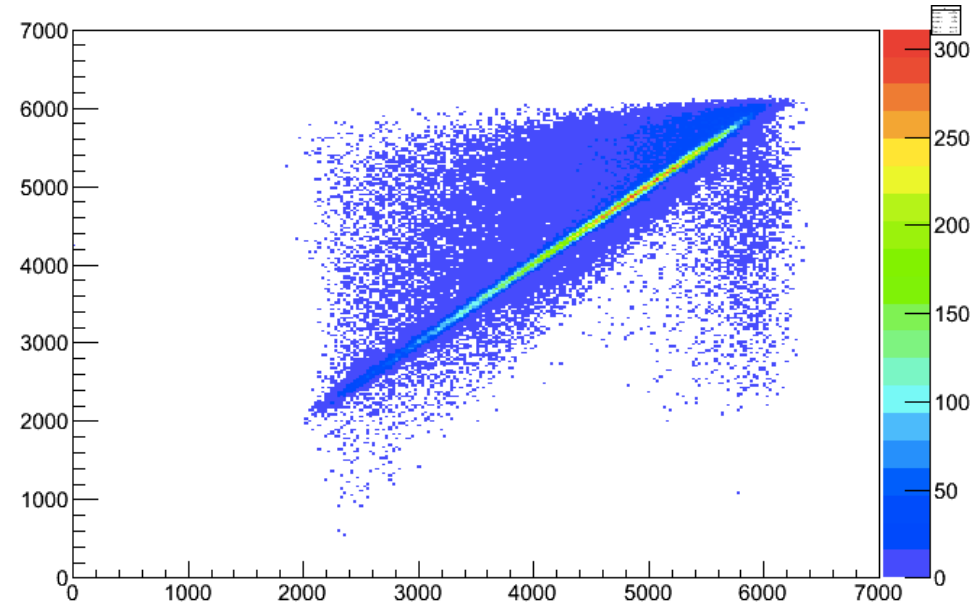
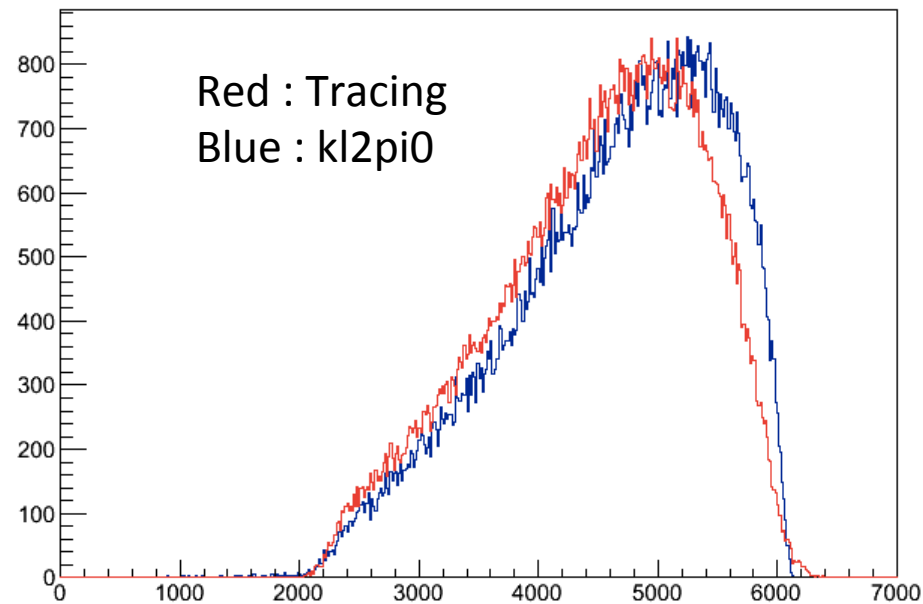
MC : 20493 -> 20281

Reconstruction of $kl3\pi^0$ in 5g on CsI && 1g on Barrels (MC)

- Vertex comparison
 - KL2 π^0 vertex vs SimVertex

X axis : Tracing

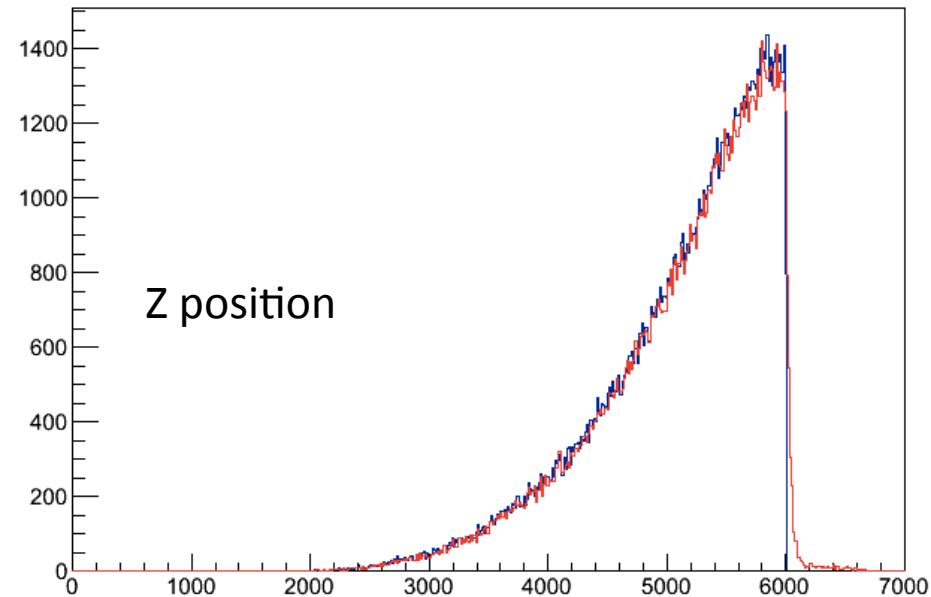
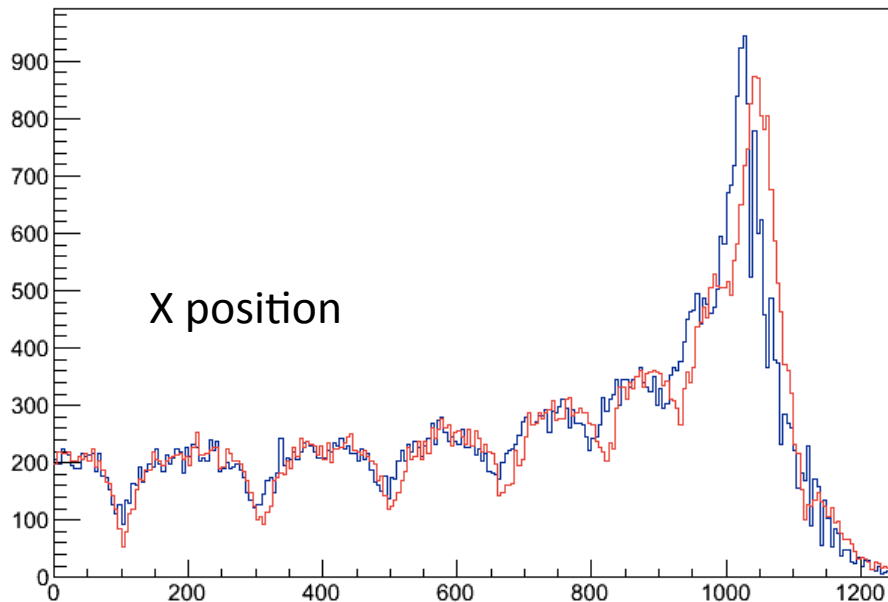
Y axis : kl2 π^0



Reconstruction of $kl3\pi^0$ in 5g on CsI && 1g on Barrels (MC)

- Result of Tracing simulation Gamma
- Reconstruction direction of missing Gamma from data of Barrels
- Compare Tracing and information from Barrels

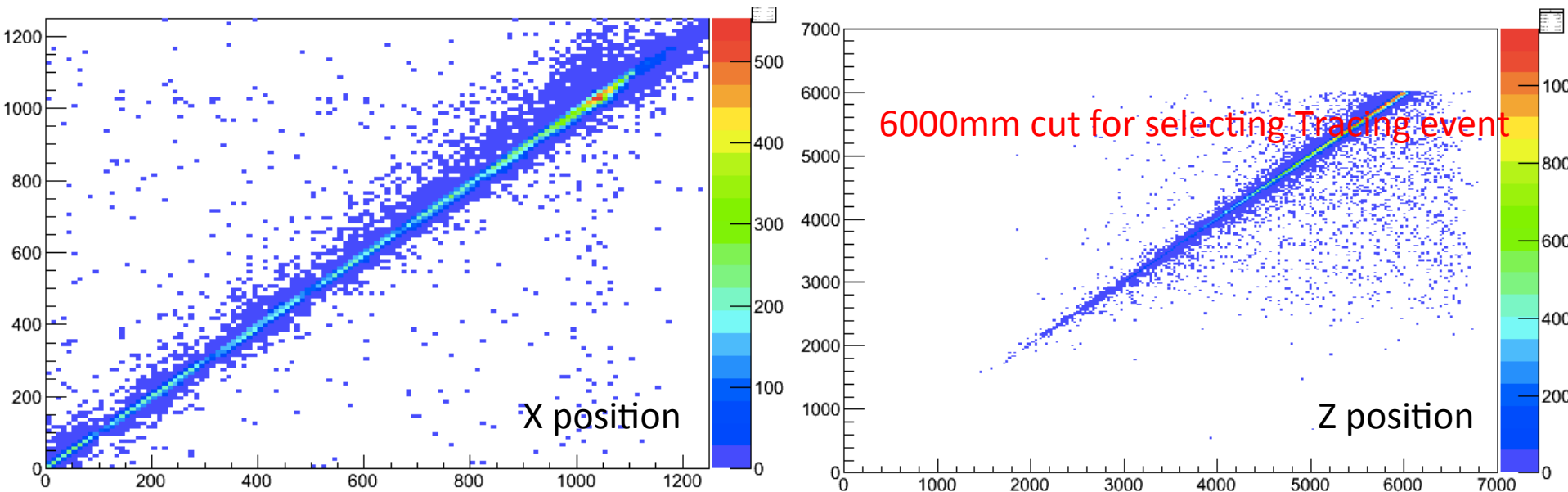
Red : Tracing
Blue : Barrel



Reconstruction of $kl3\pi^0$ in 5g on CsI && 1g on Barrels (MC)

- 2d (Barrel vs Tracing)

X axis : Barrel
Y axis : Tracing

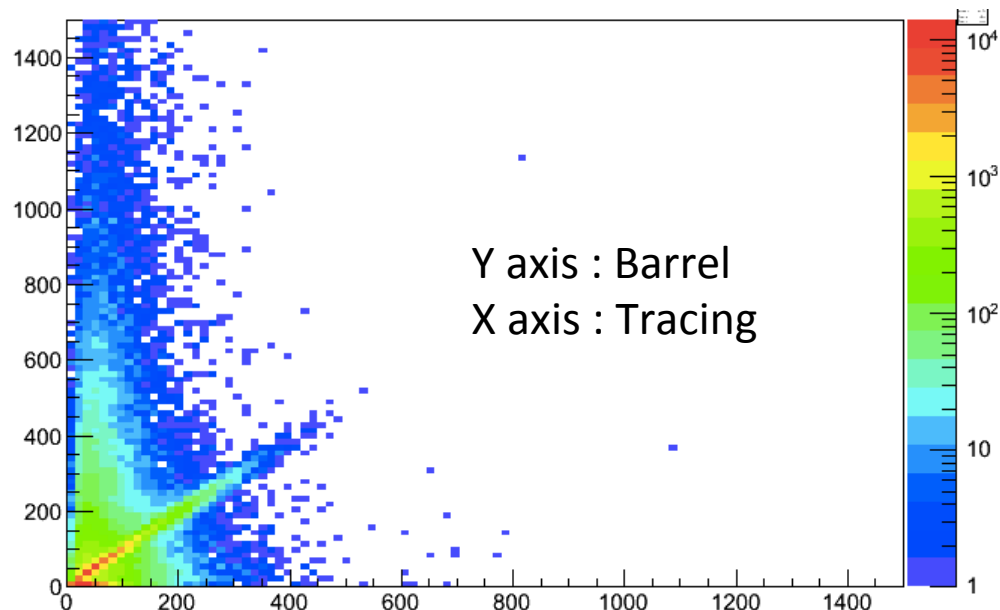
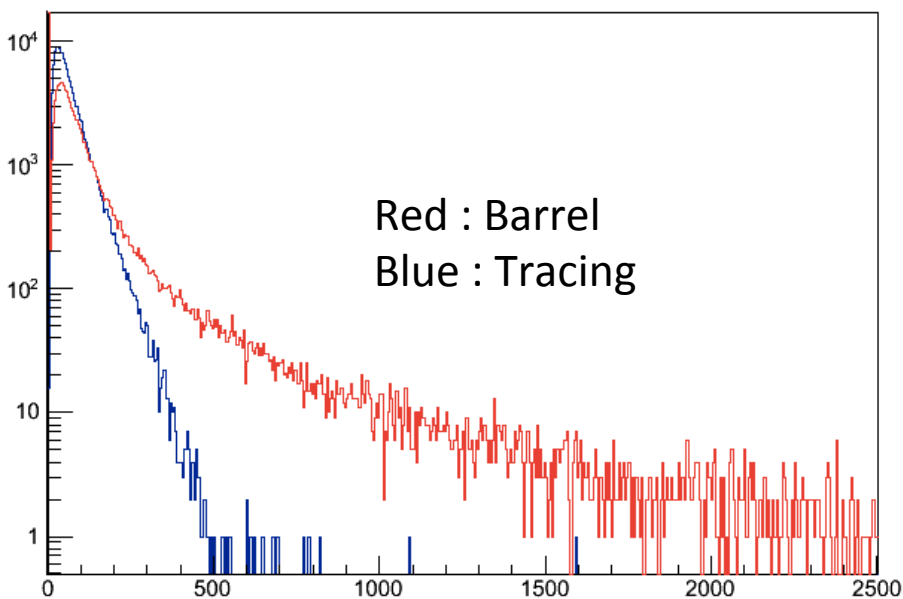


Reconstruction of $k\ell 3\pi^0$ in 5g on CsI && 1g on Barrels (MC)

- From reconstruction of direction of missing gamma, we can calculate energy of the gamma

$$2(E_S E_r - \vec{p}_S \cdot \vec{p}_r) = m_\pi^2 \quad \vec{p}_S \cdot \vec{p}_r = E_S E_r \cos(\theta)$$

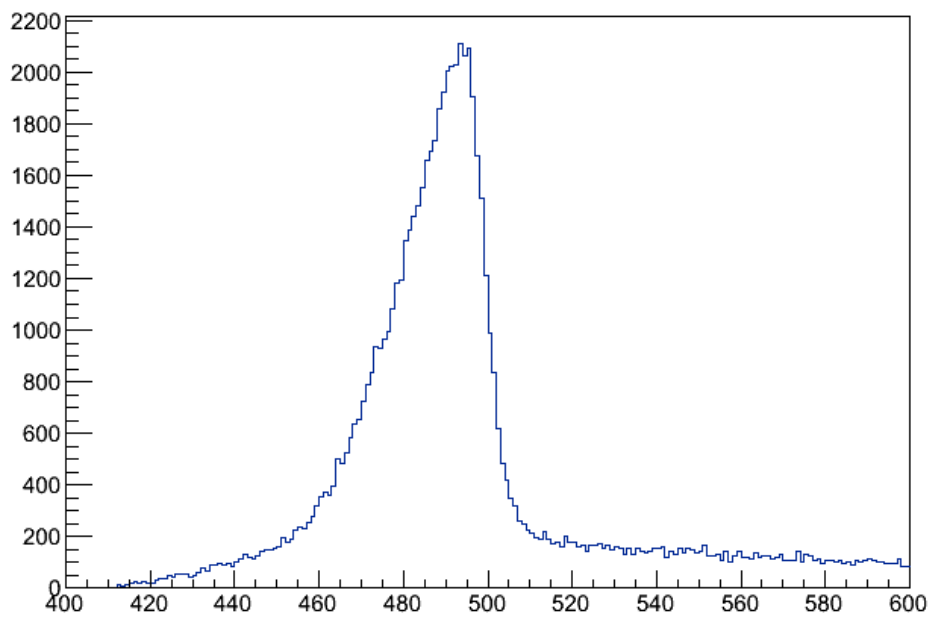
$$E_r = m_\pi^2 / (2E_S (1 - \cos(\theta)))$$



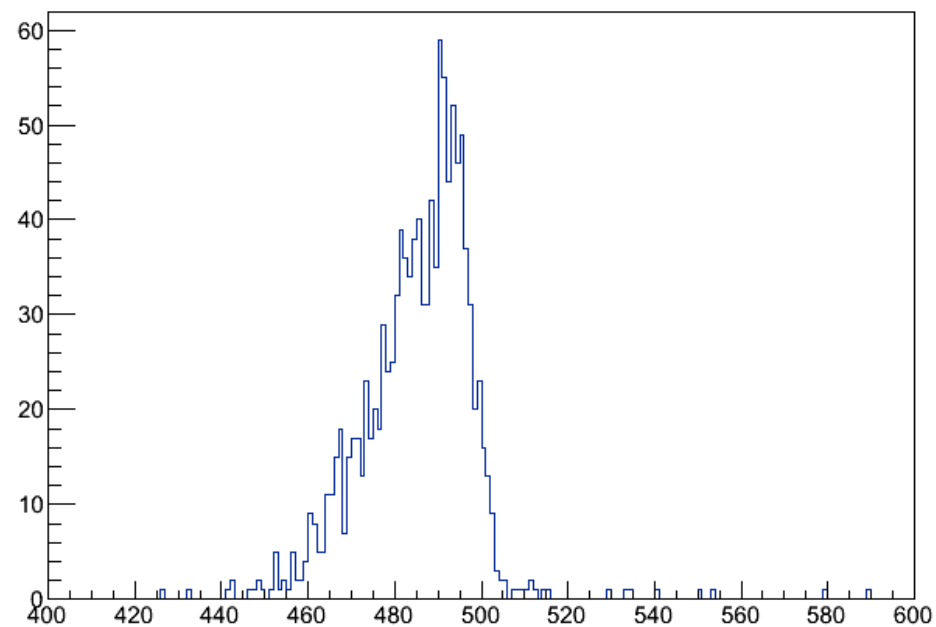
KLmass

No Kinematical cut about KL

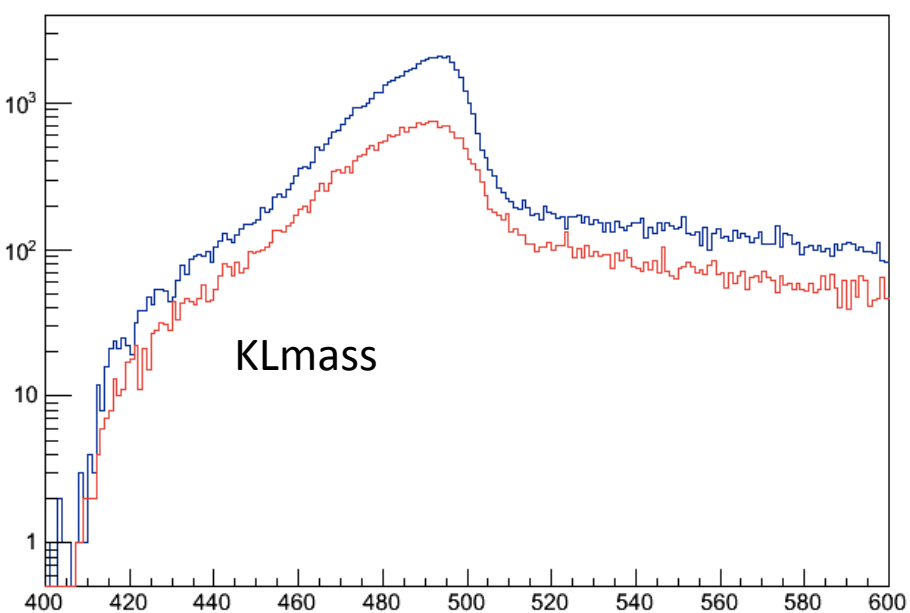
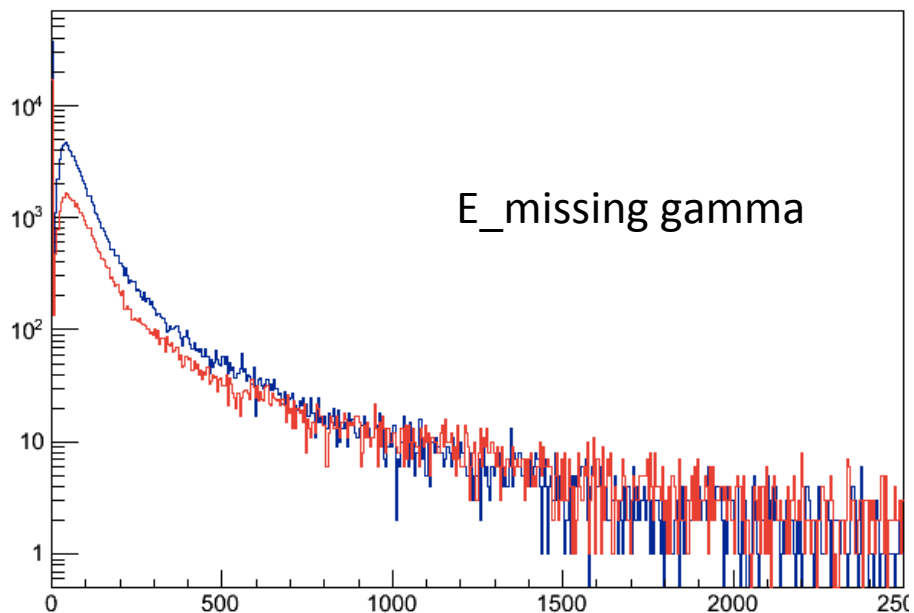
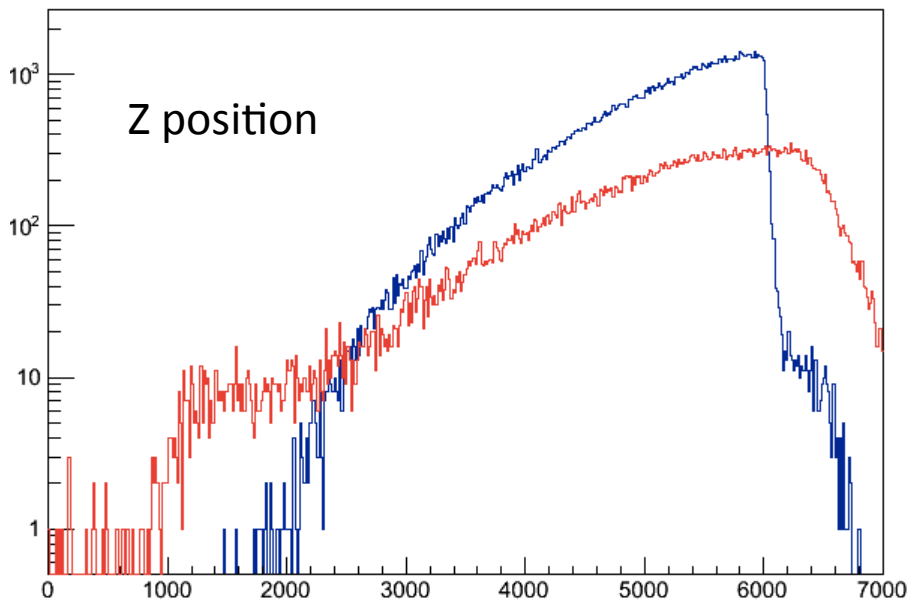
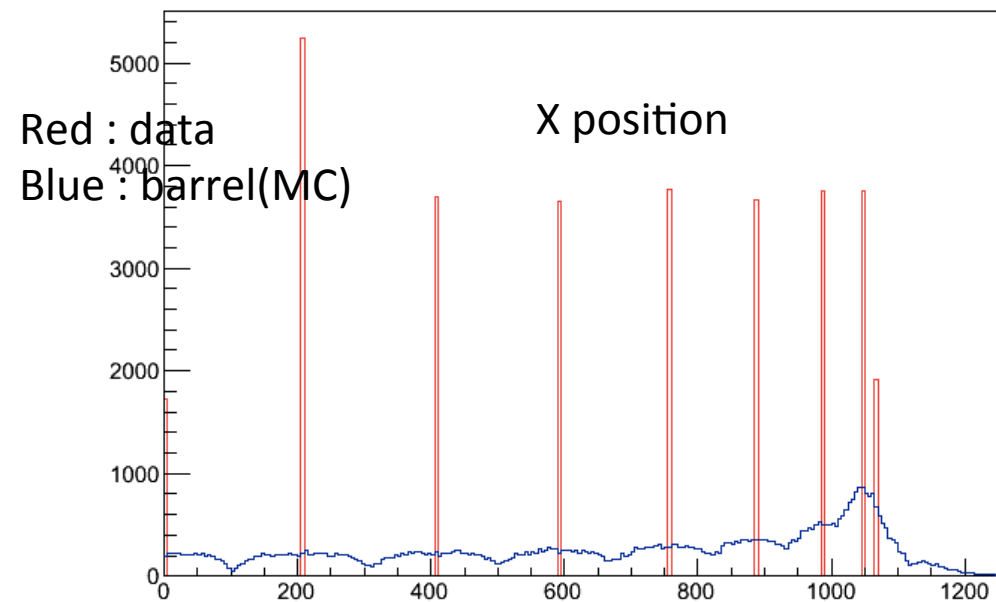
KLmass {MassTag==1}



KLmass {MassTag==1 && abs(RecGamE - SimGamE) < 0.1}



With data(Run18884), not normalized

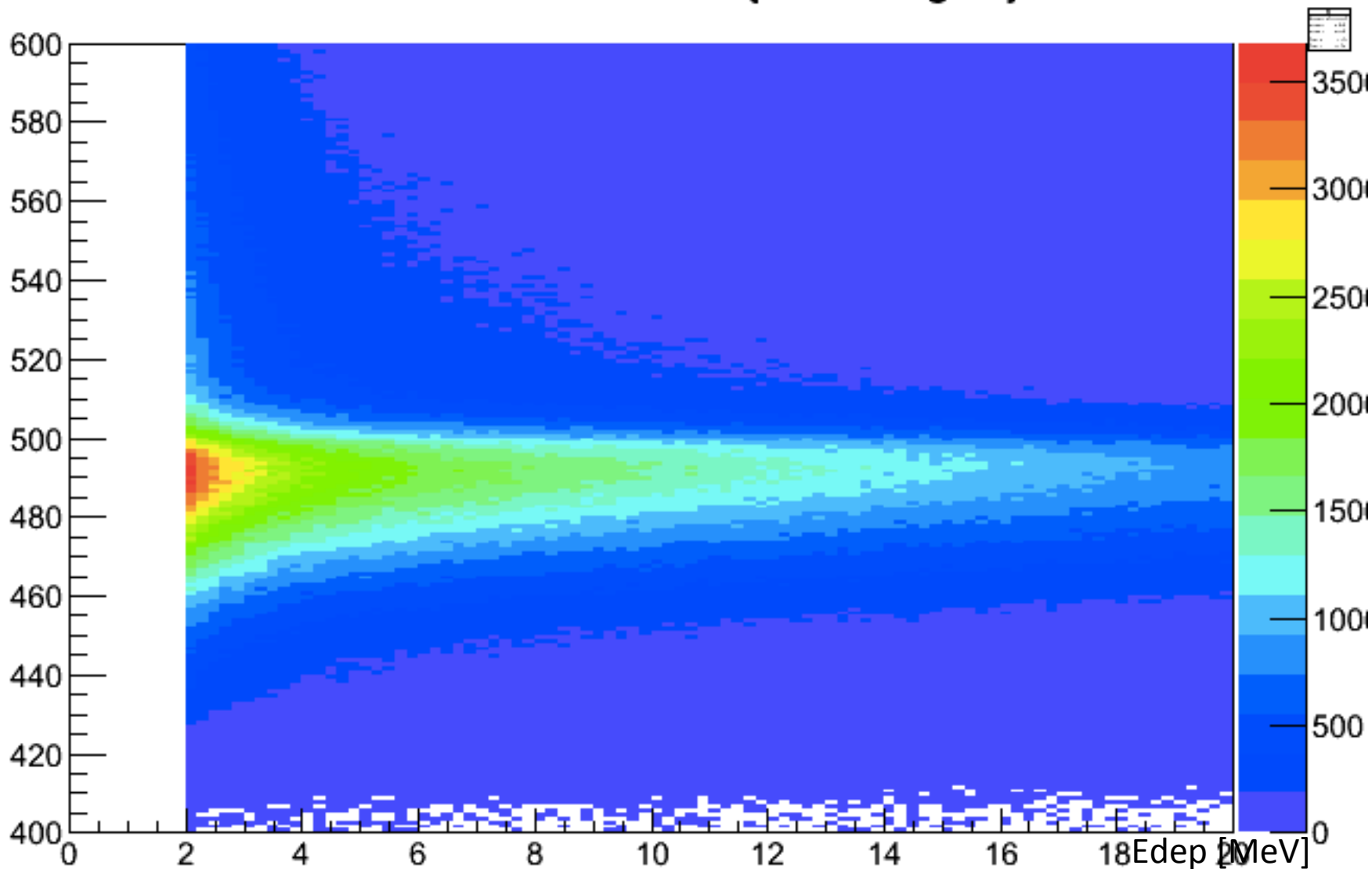


KLmass vs CBAREdep

(dat, total Run62)

KLmass:CBAREDEP {MassTag>0}

Mass [MeV/c²]



Gamma Energy

Gamma energy of 5g (on CsI)

