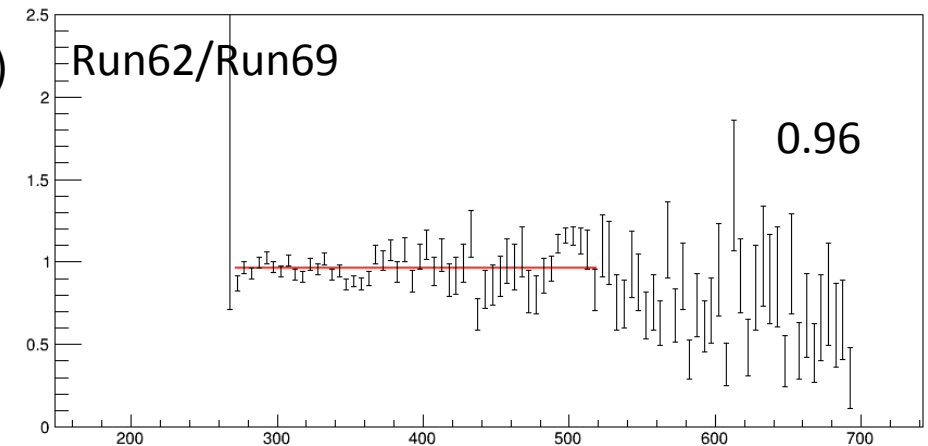
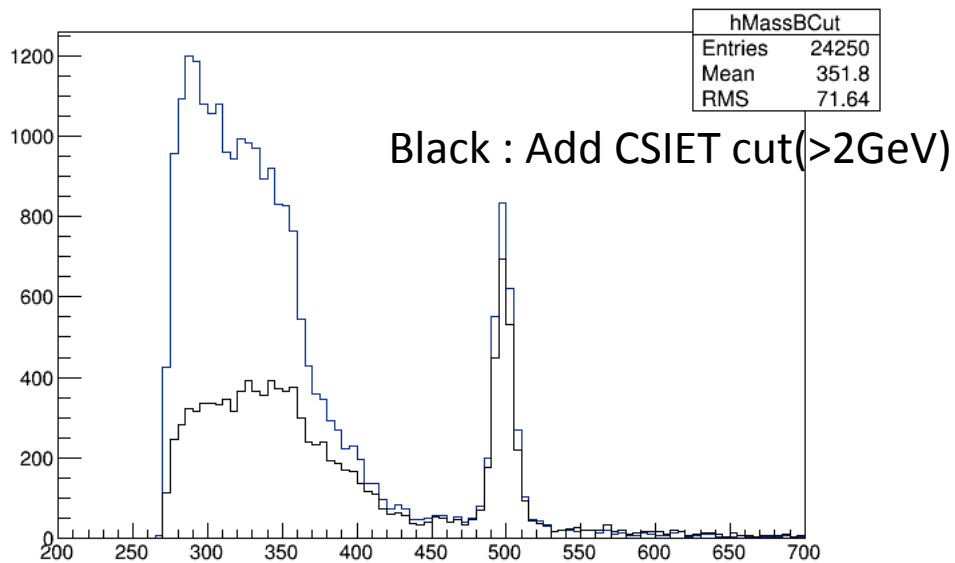
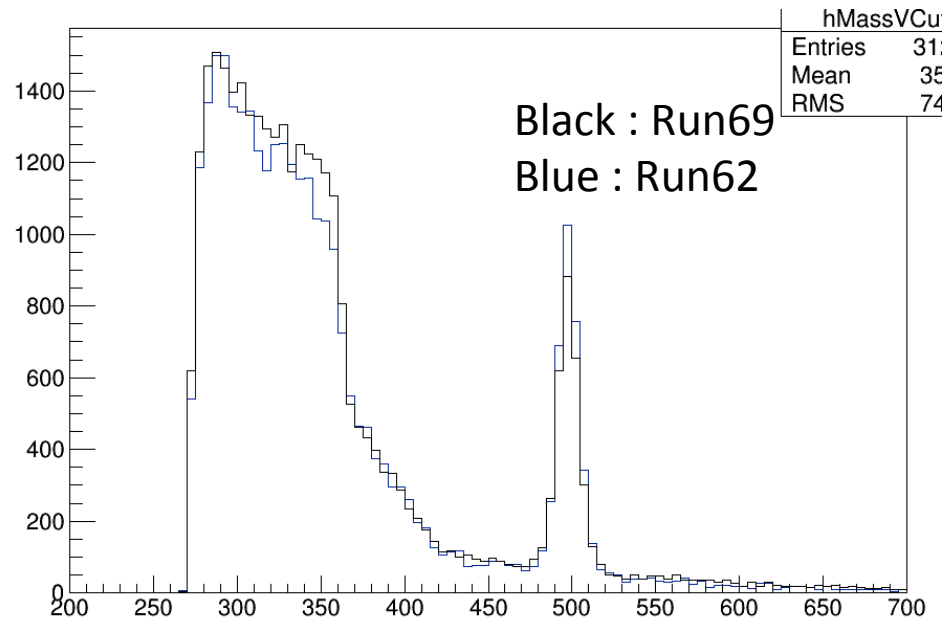


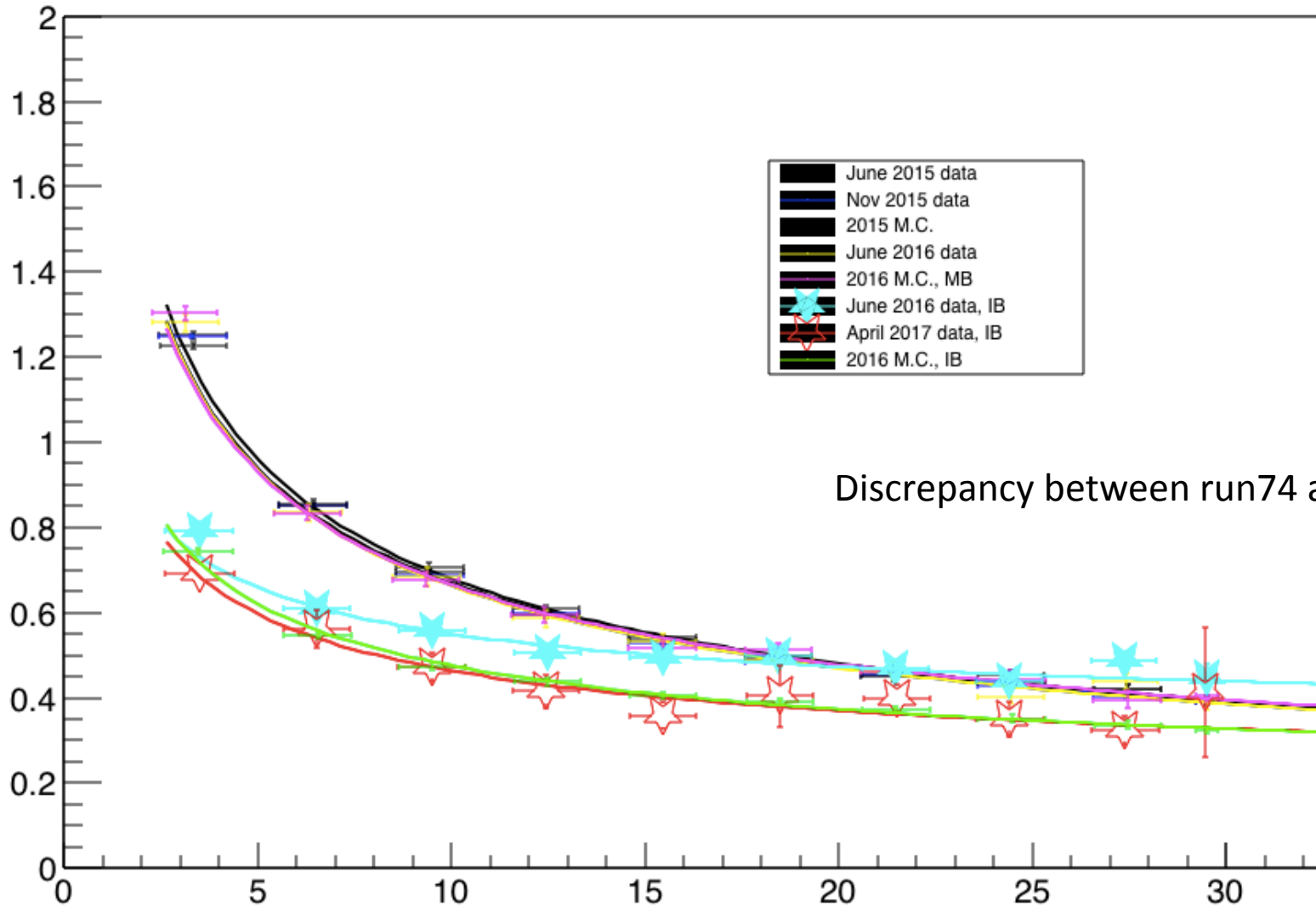
Report_170426

2pi0 reconstruction

- Normalization Trigger
- CV, NCC, CC03 vetoes are applied
- $\text{Run62/Run69} = 4.38/7.4$



Run74 result



Vertex time cut

- #KL3pi0s = 10e9
- No Accidental & No Resolution on Barrel
- Vertex Time Cut
 - 1) 3 sigma regarding energy deposit
 - $136288(\#events) / 297(\#survive)$
 - 2) +/- 5ns
 - $136288(\#events) / 28(\#survive)$

Events which survive cut ($\pm 5\text{ns}$)

- 1) ToF from path length $<$ ToF from CsI Vertex Time and Barrel Time
 - 26 from 28
- 2) ToF from path length $>$ ToF from CsI Vertex Time and Barrel Time
 - Vertex estimation failed
 - Vertex $Z >$ Gamma Hit Position (backward gamma)

26 from 28

- PID : 2112(n), 2212(p), 1000060120(Carbon) participate in hit process

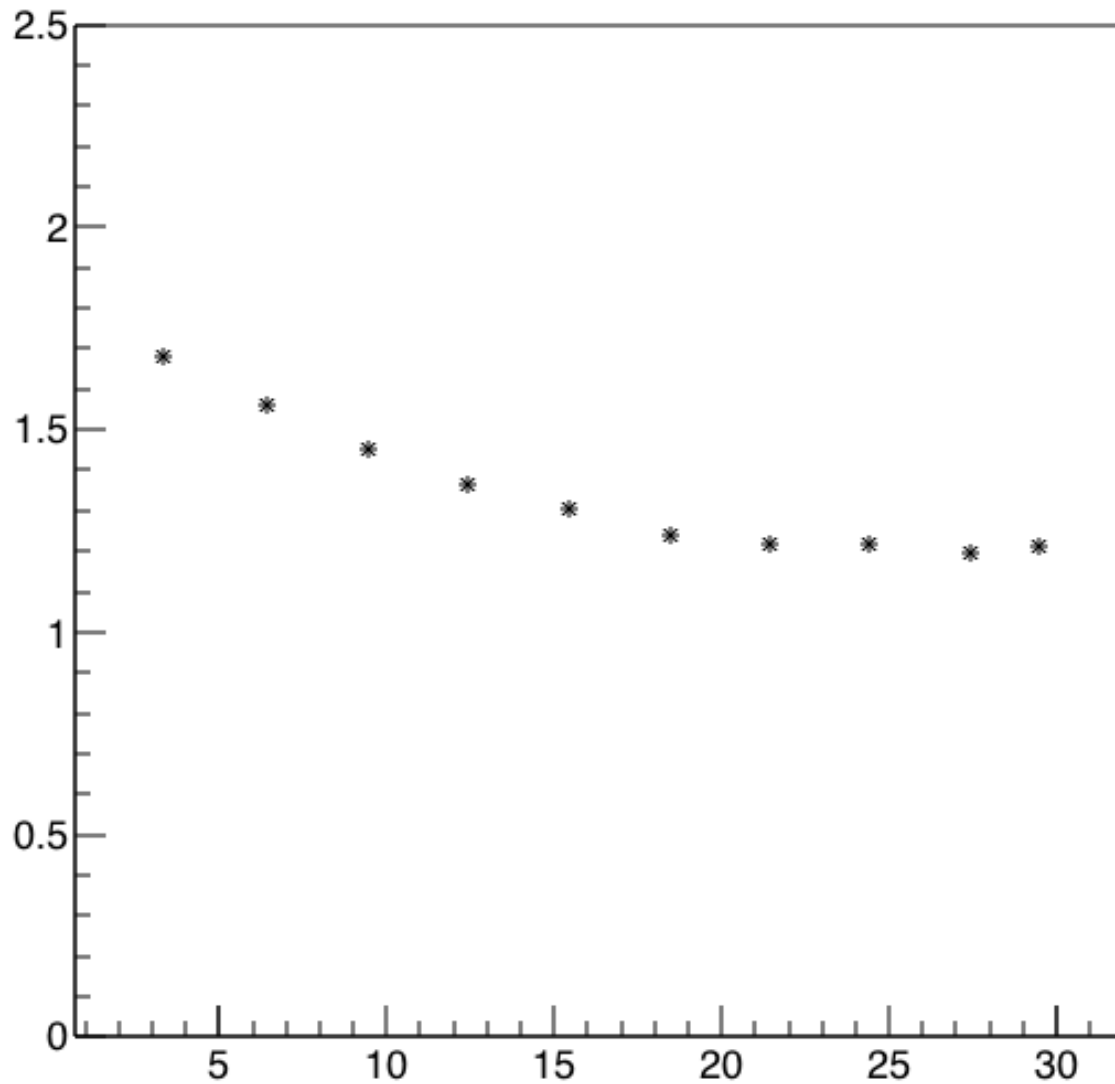
2)

- *runID : 559 , MCEventID : 257867*
- *weird 0 In 1, 1197864*
- *Kaon Vertex : 29.1323, -14.9326, 3616.64*
- *Reco Vertex : 72.556, -19.9181, 4504.99*
- *Gen Position : 404.185, 98.9957, 6193.18, ToF : 8.69327*
- *Gen Position : -725.751, 130.212, 6148.71, ToF : 8.82669*
- *Gen Position : -372.302, 268.401, 6195.57, ToF : 8.75711*
- *Gen Position : 319.081, -639.534, 6192.4, ToF : 8.89354*
- *Gen Position : 289.574, -263.383, 6152.78, ToF : 8.54441*
- *Gen Position : -1049.44, -219.575, 2889.02, ToF : 4.39438*
- *Reco Position : -1047.48, -208.356, 2820.78*
- *ToF : 1.5033*
- *ModID : 17, Ene : 8.38143, Time : 27.3811, HitZ : -1.7538*

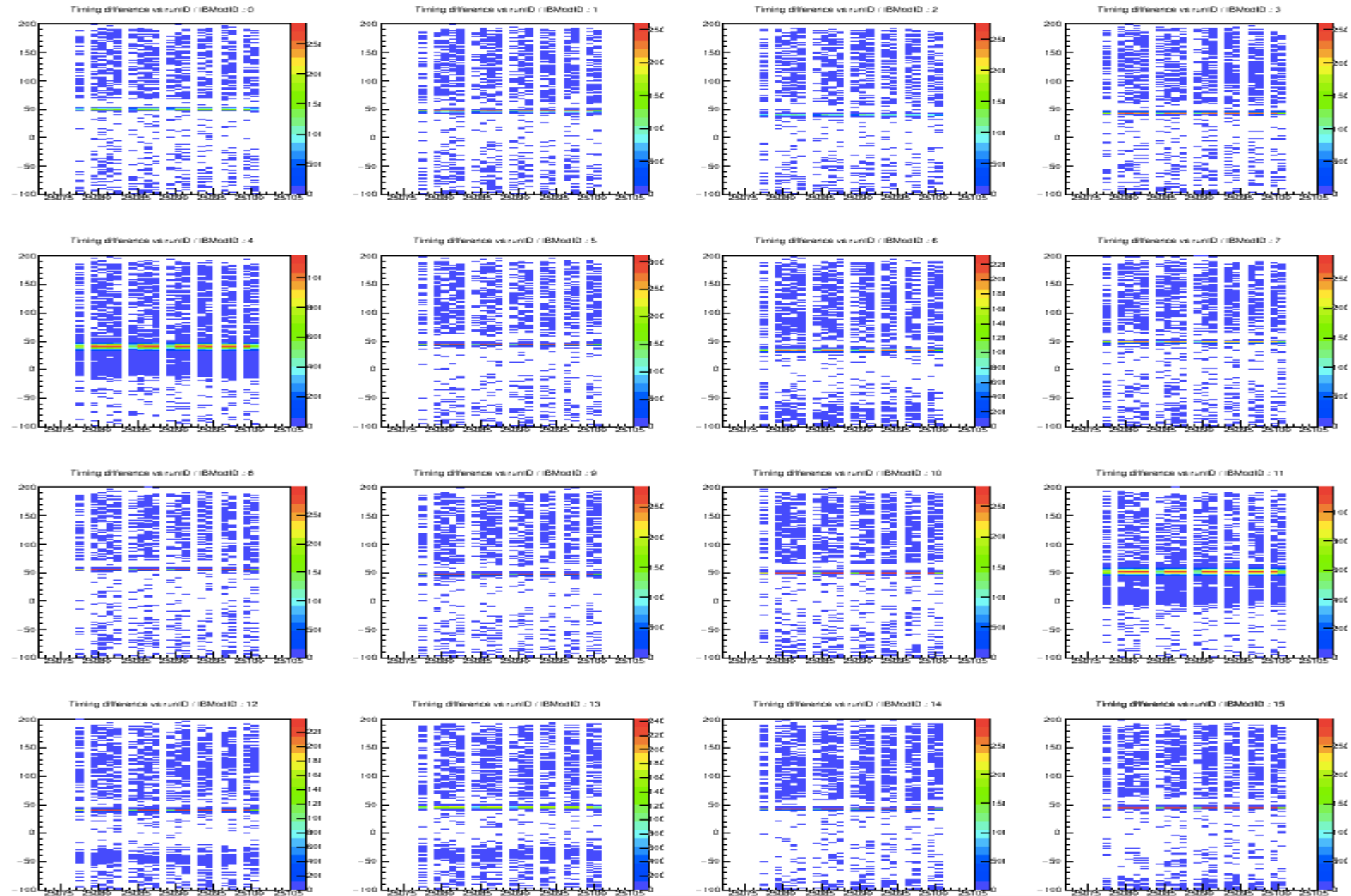
2)

- *runID : 950 , MCEventID : 210898*
- *weird 0 In 1, 2034337*
- *Kaon Vertex : -6.86137, -25.179, 2848.06*
- *Reco Vertex : -64.1992, -74.8978, 3903.15*
- *Gen Position : 280.539, 695.884, 6161.64, ToF : 11.3521*
- *Gen Position : -163.991, -453.52, 6175.49, ToF : 11.203*
- *Gen Position : 802.056, 777.617, 2789.05, ToF : 3.80659*
- *Gen Position : 28.7653, -667.45, 6164.21, ToF : 11.2677*
- *Gen Position : -645.629, -65.9135, 6226.37, ToF : 11.4693*
- *Gen Position : 597.952, 35.239, 6275.38, ToF : 11.6107*
- *Reco Position : 861.256, 861.256, 2707.18*
- *ToF : 0.602345*
- *ModID : 36, Ene : 4.82131, Time : 24.146, HitZ : -1.91291*

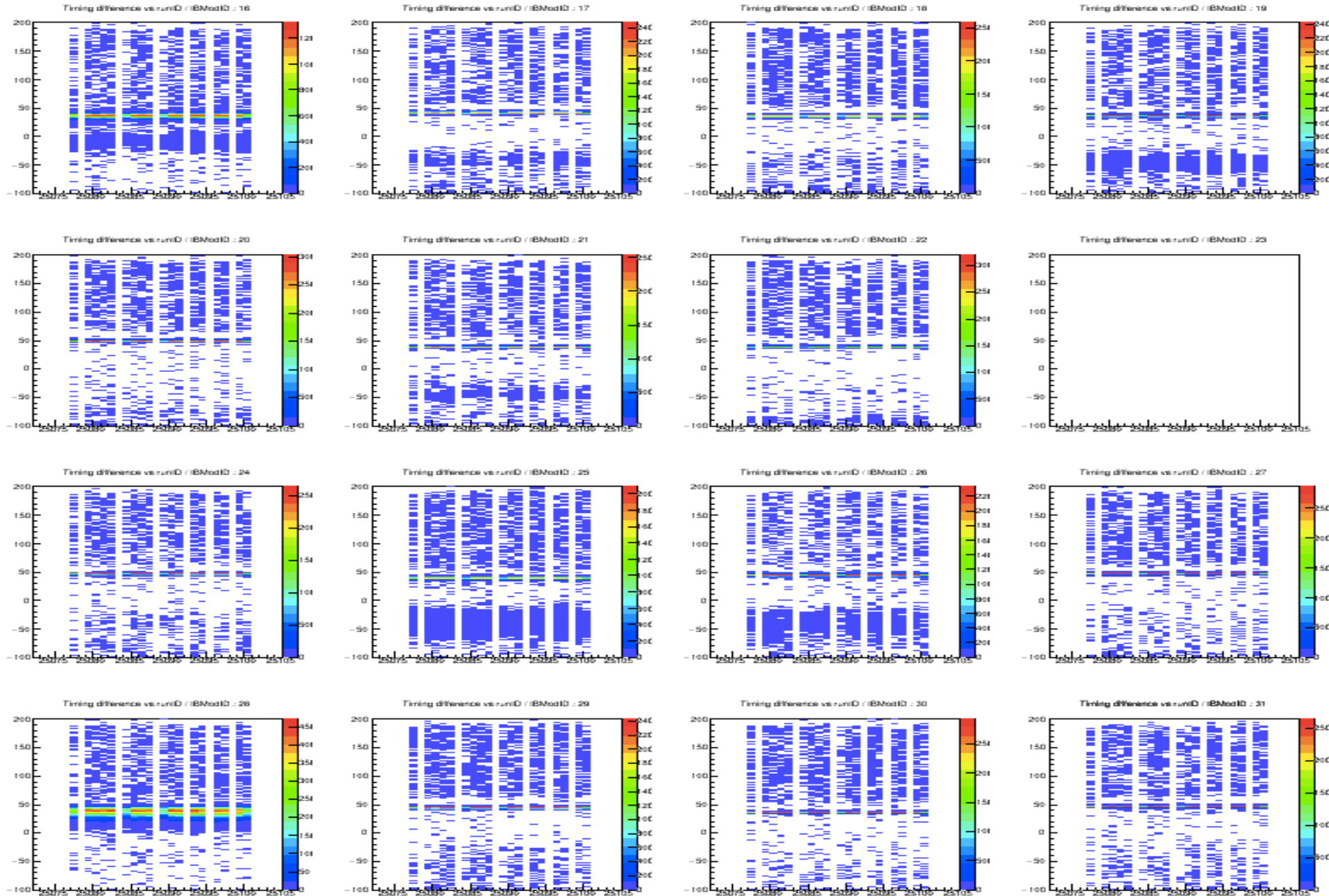
MB/IB



LED shift check(1)



LED shift check(2)



LED shift check(4)

