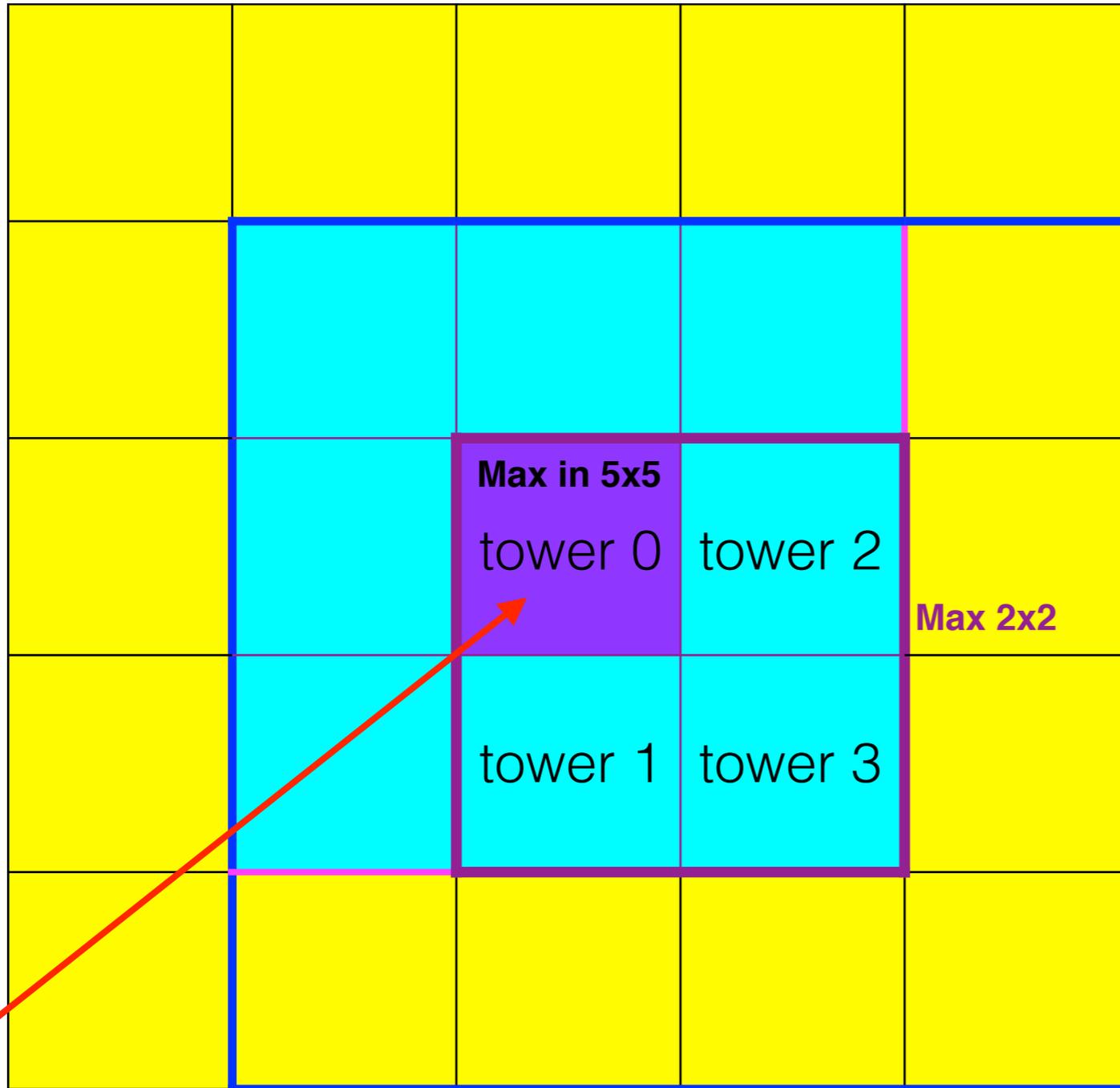


2x2 Cluster Energy Method

Cluster Energy

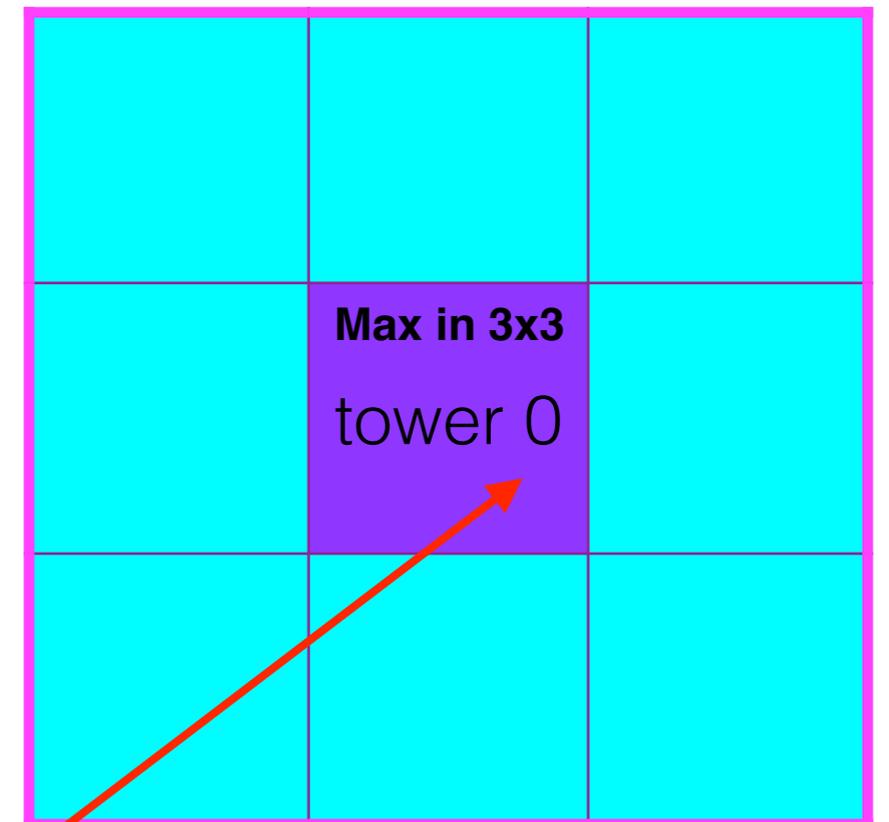
5x5



Isolation Ratio == Max 2x2 En / 4x4 En

Tower Energy

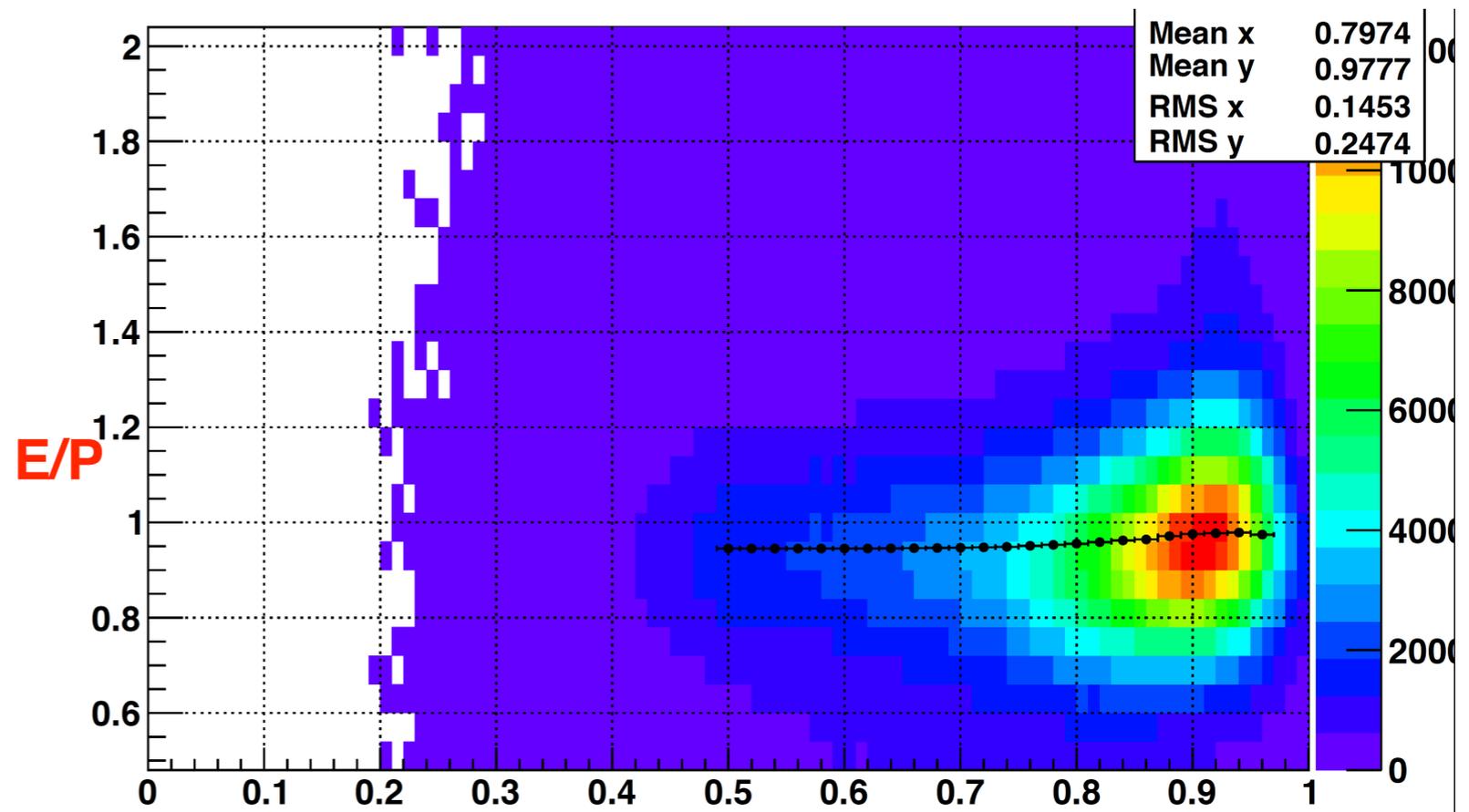
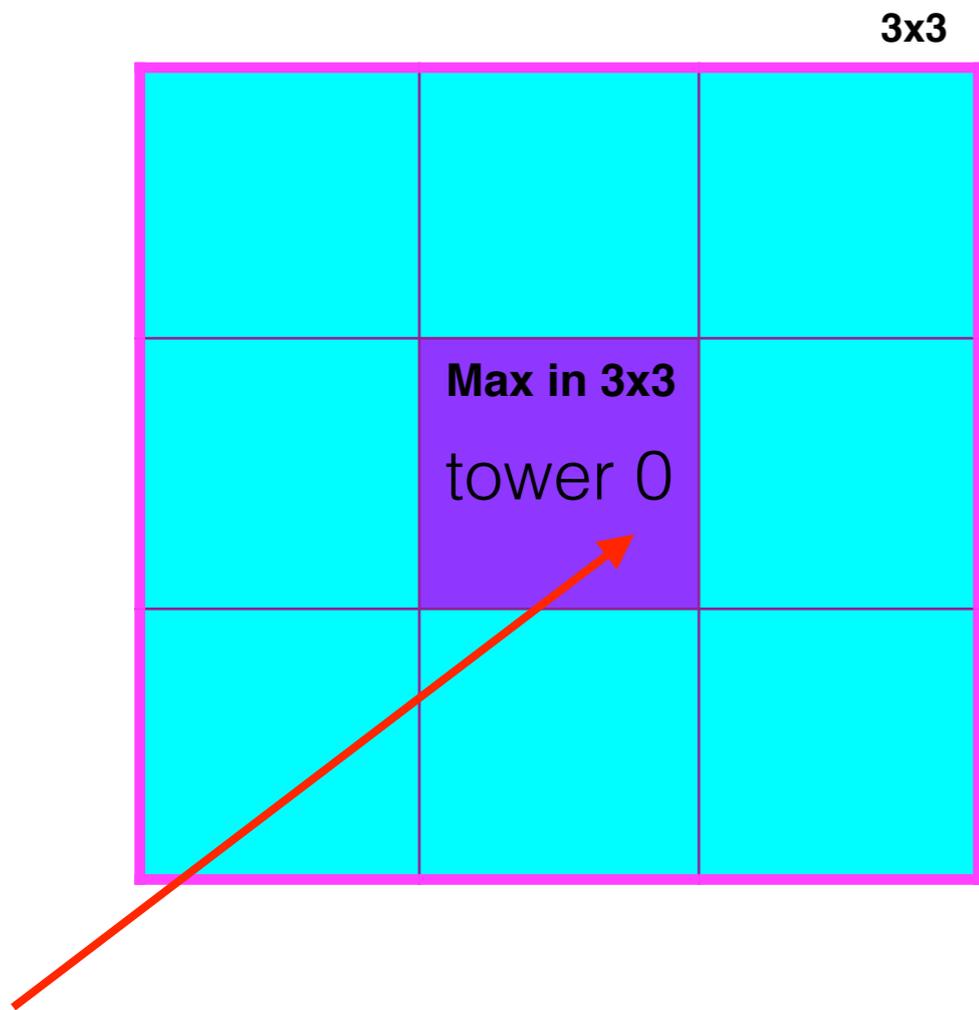
3x3



Isolation Ratio == Max towerEn / 3x3 En

$$E/P = \text{Tower Energy} / \text{track P}$$

After GEANT energy correction is applied to tower Energy!!!!

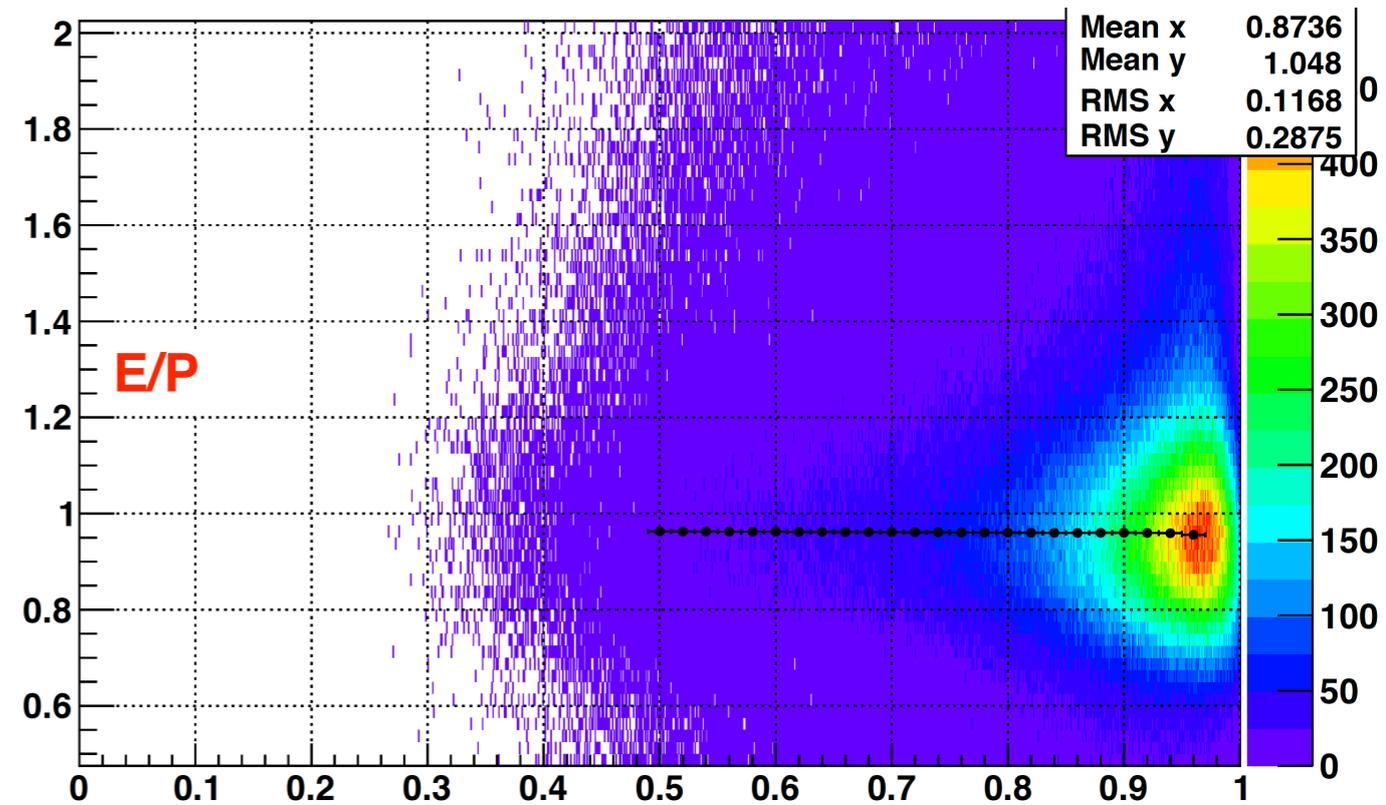
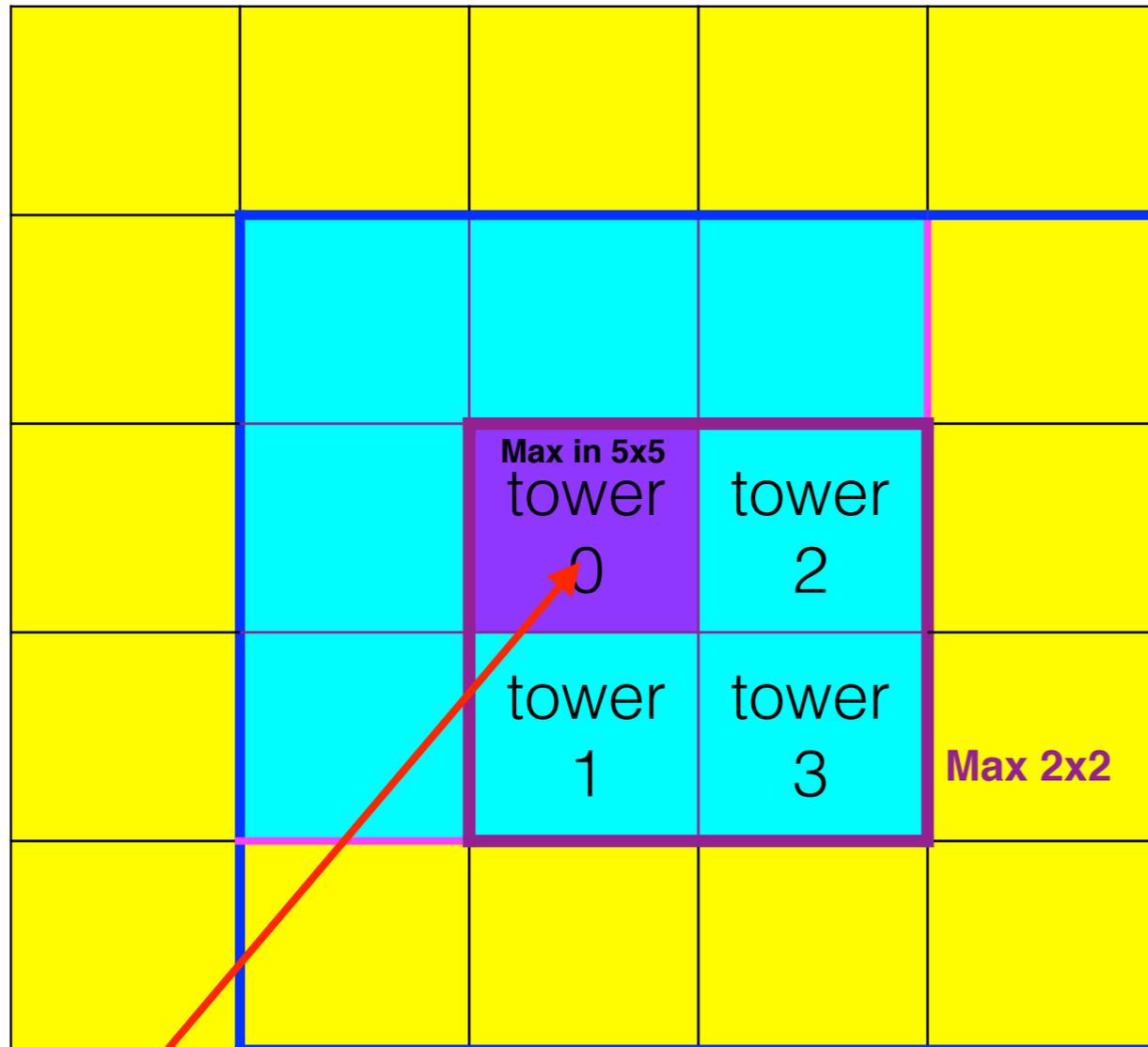


isolation ratio

Isolation Ratio == Max towerEn / 3x3 En

$$E/P = 2 \times 2 \text{ cluster energy} / \text{track } P$$

2x2 Cluster Energy

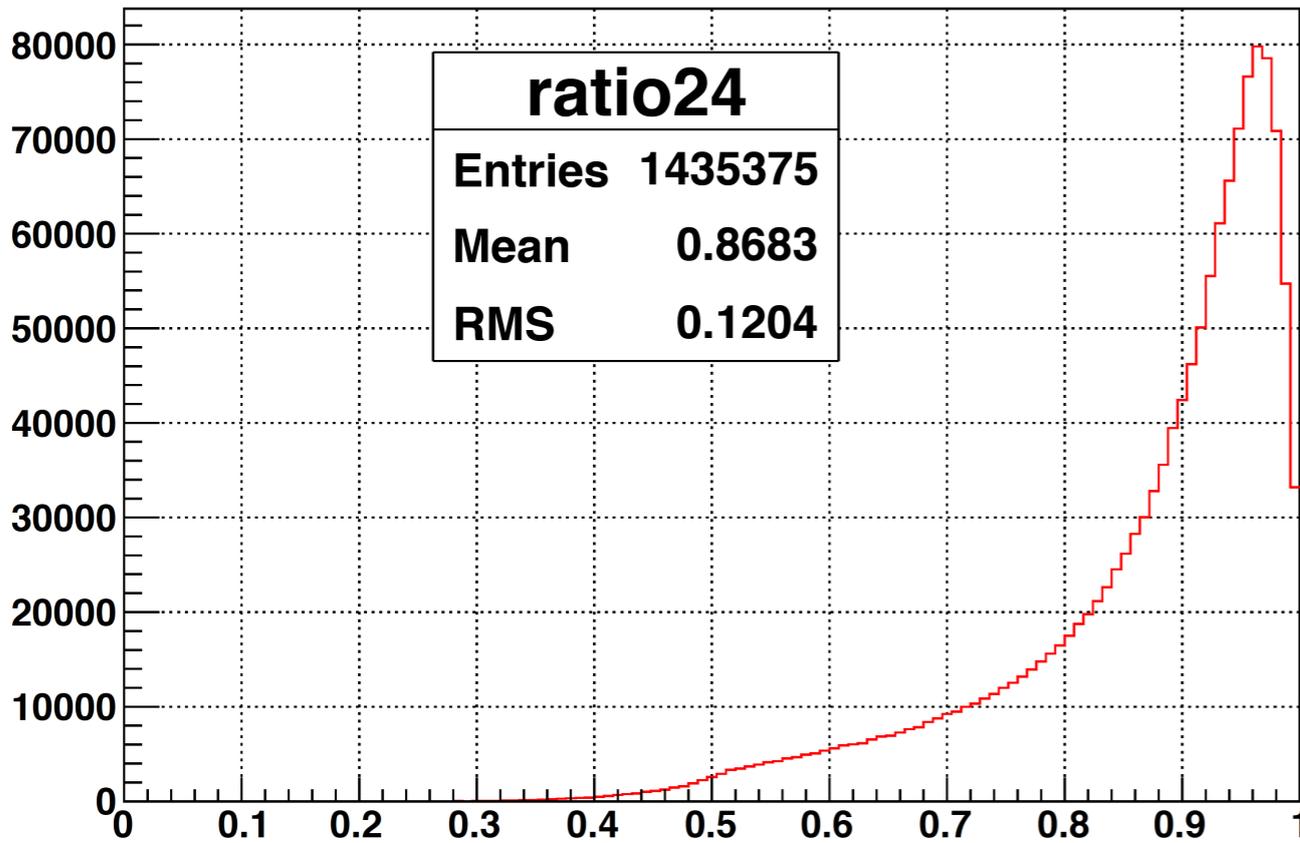


isolation ratio

$$\text{Isolation Ratio} == \text{Max } 2 \times 2 \text{ } E_n / 4 \times 4 \text{ } E_n$$

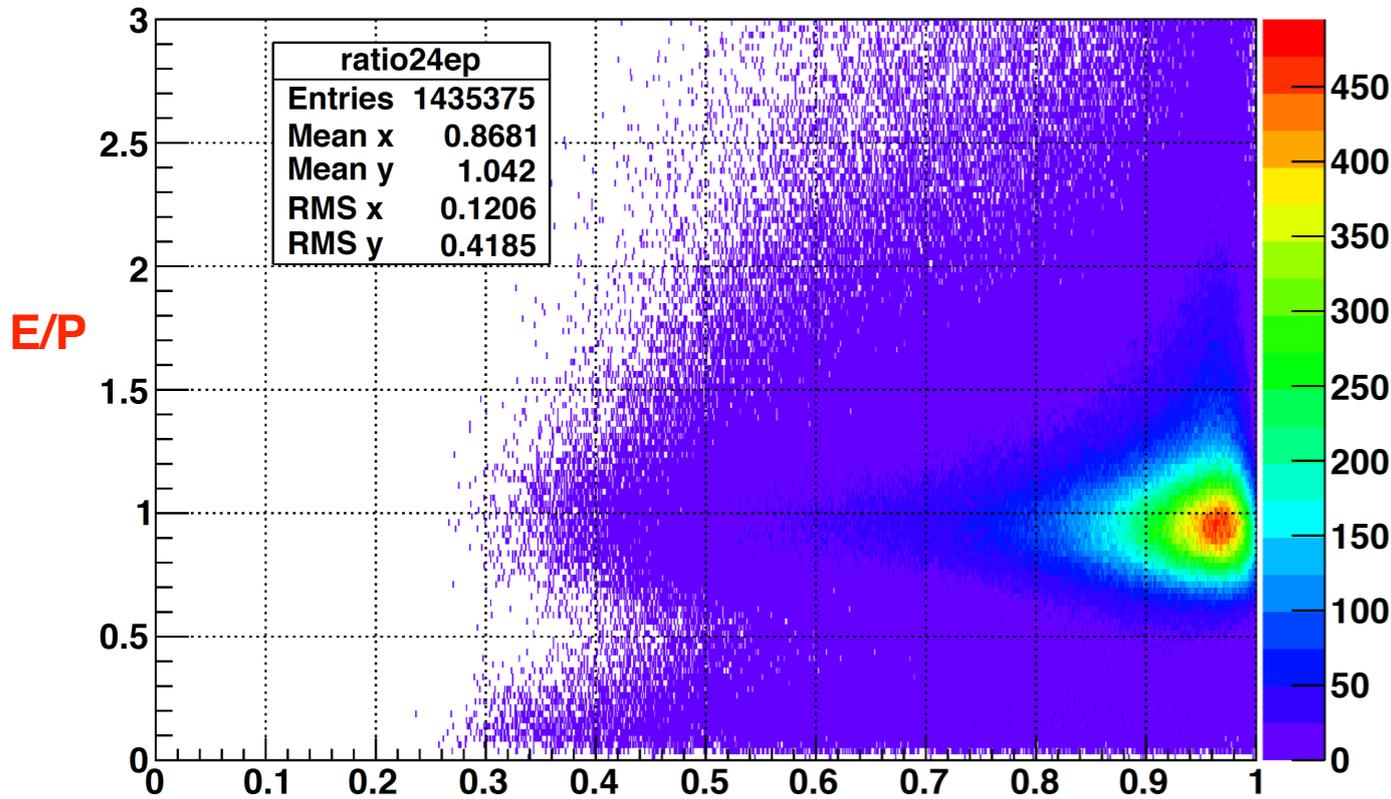
1/3x3 Vs 2x2/4x4 Isolation ratios

2x2over4x4



Wed Jul 29 09:29:20 2015

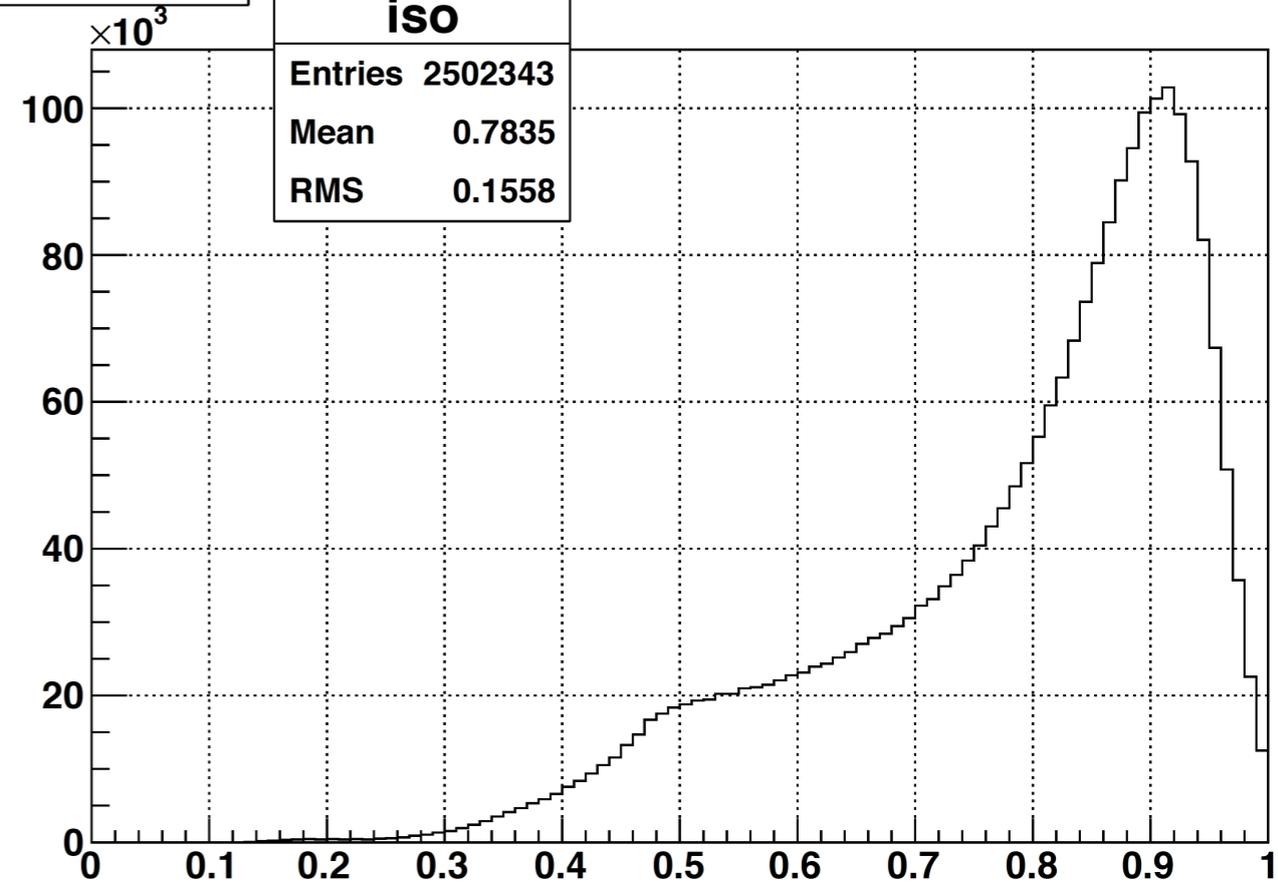
r24vsEoverP



Wed Jul 29 09:32:36 2015

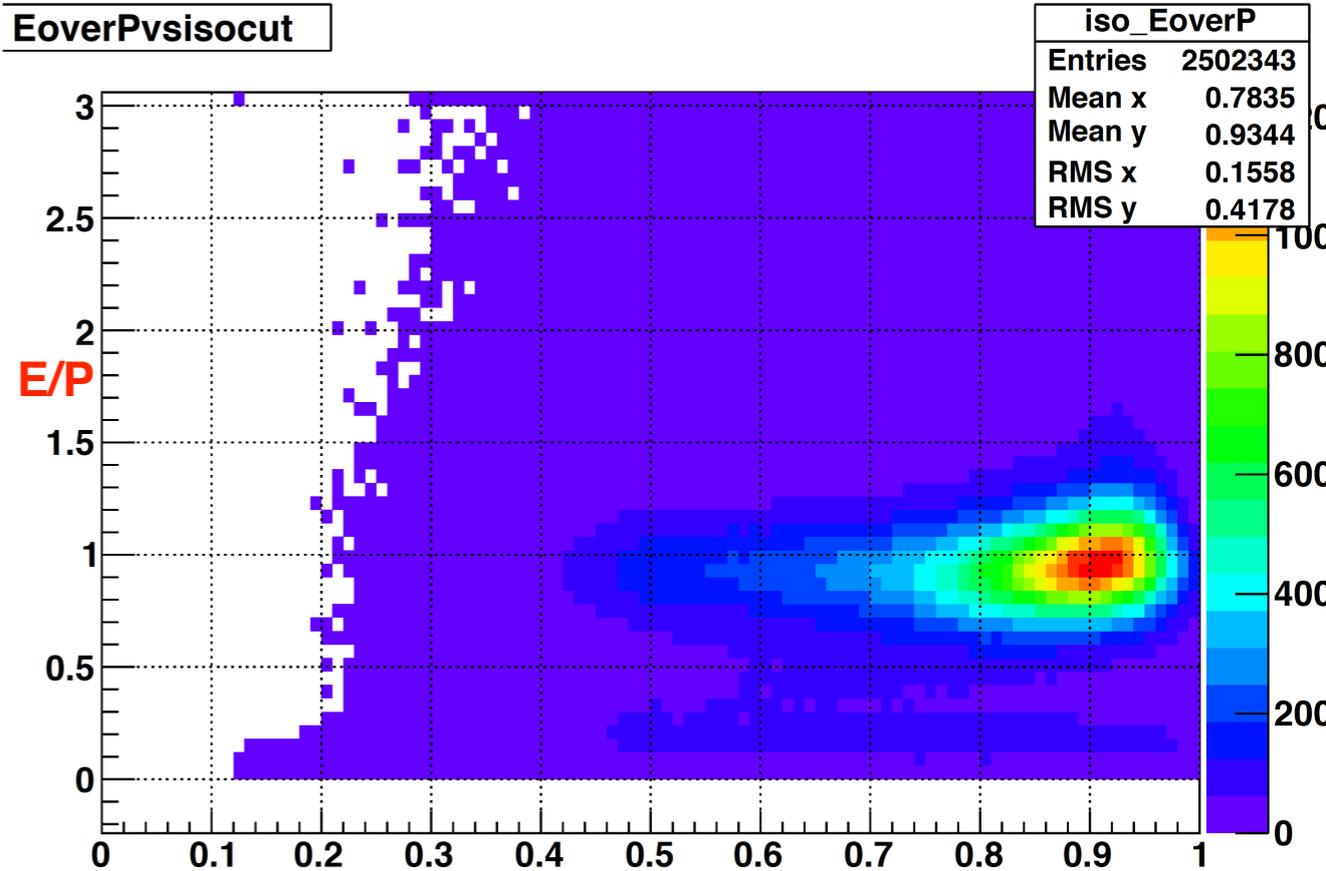
2x2 / 4x4

isolationcut



Tue May 12 09:12:45 2015

EoverPvsisocut

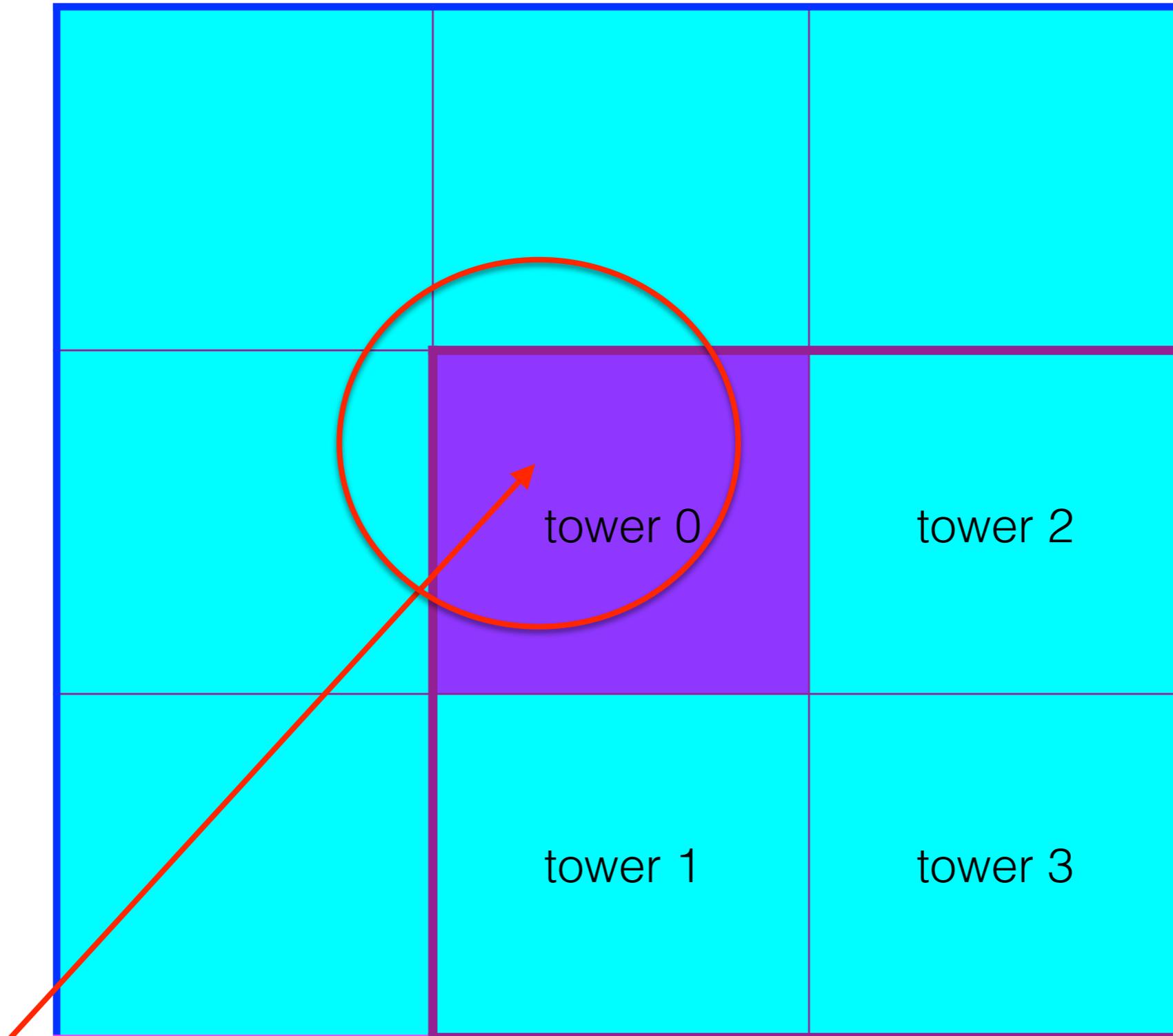


Tue May 12 09:15:00 2015

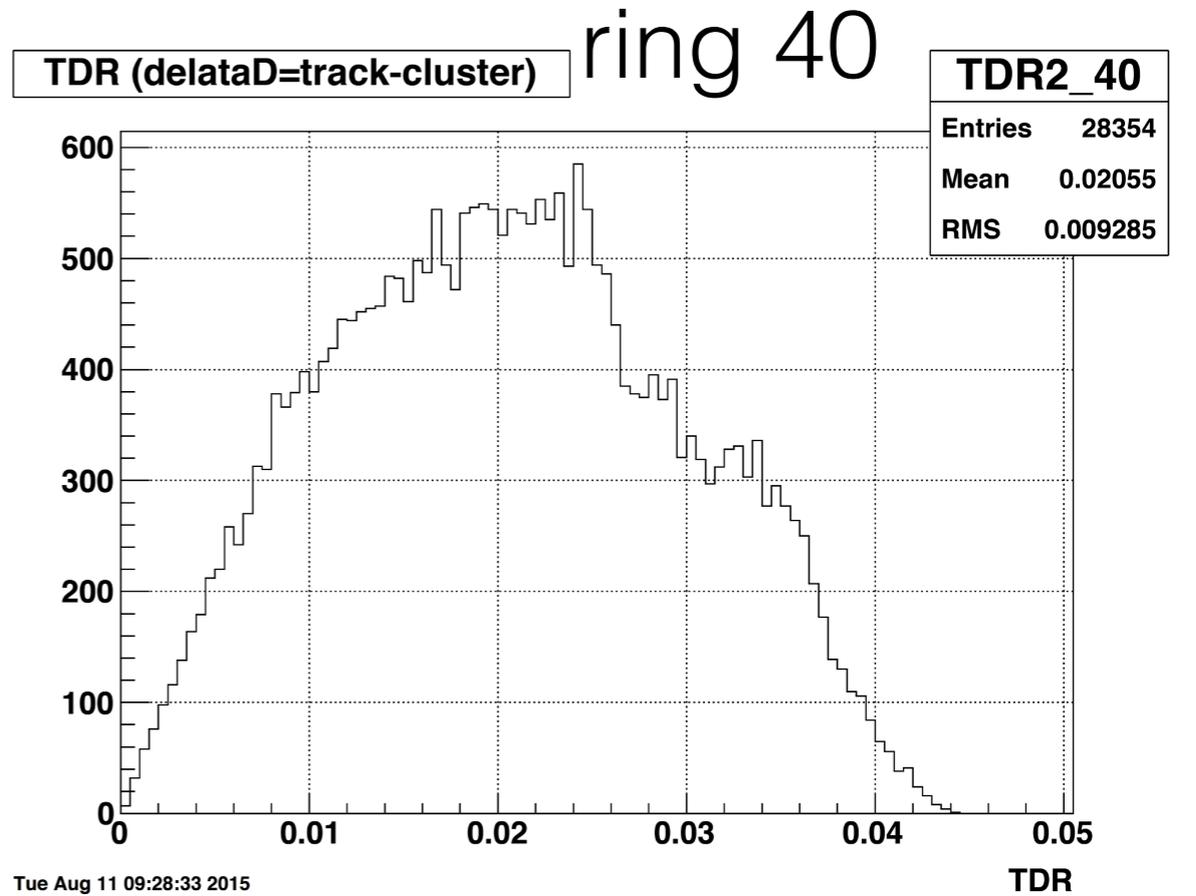
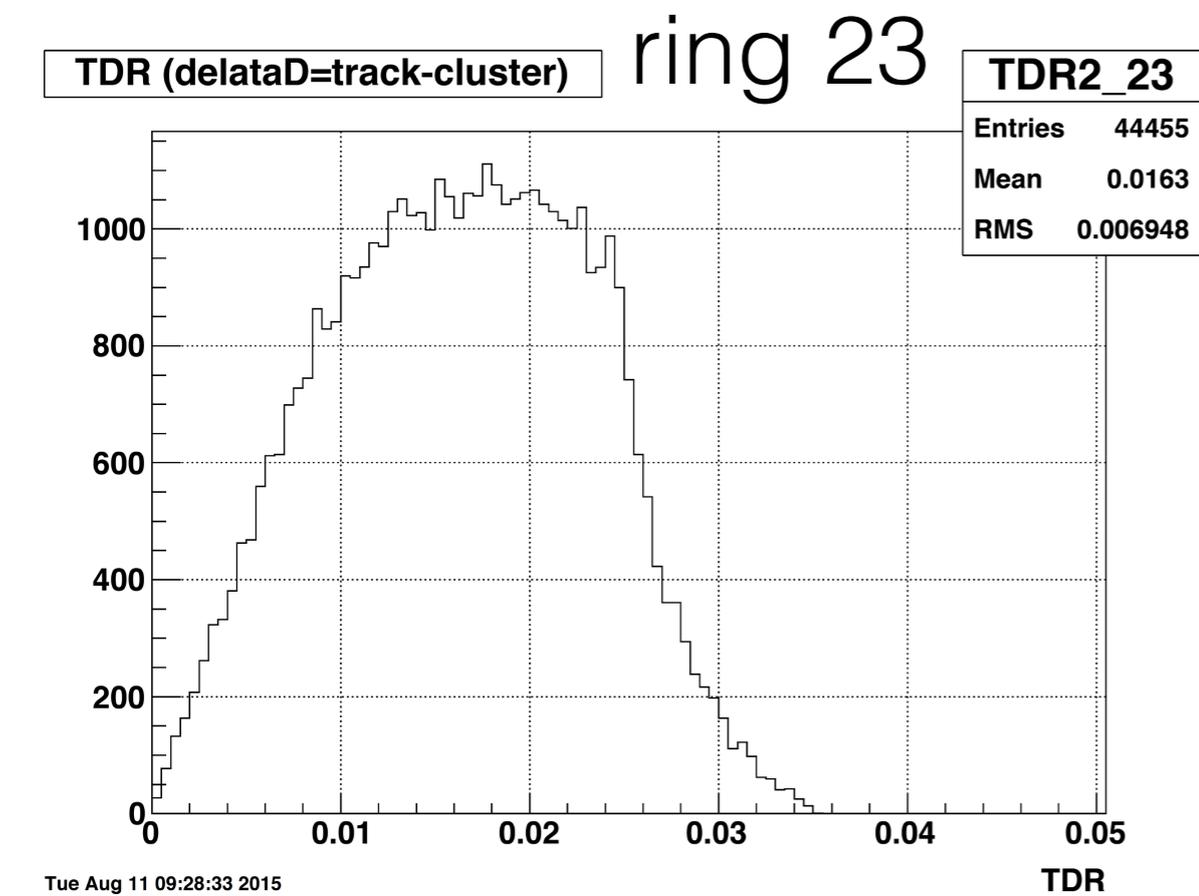
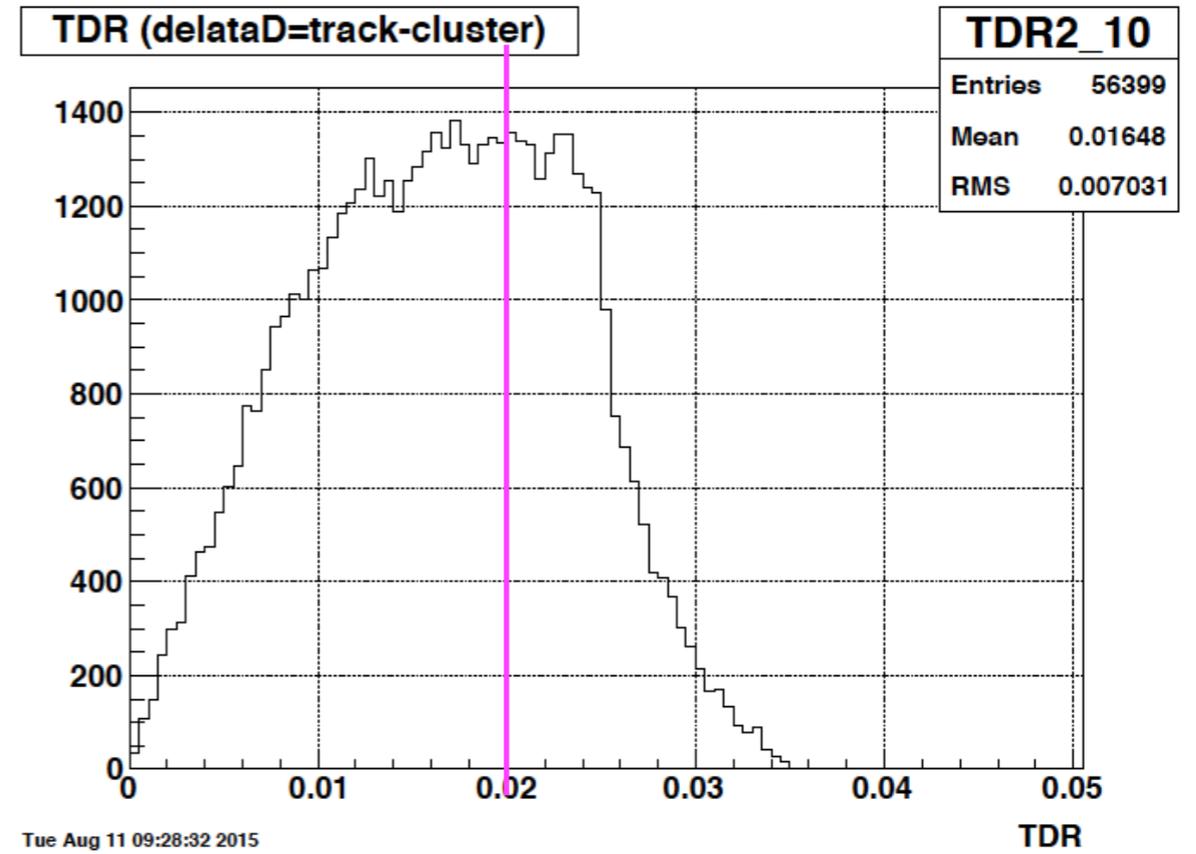
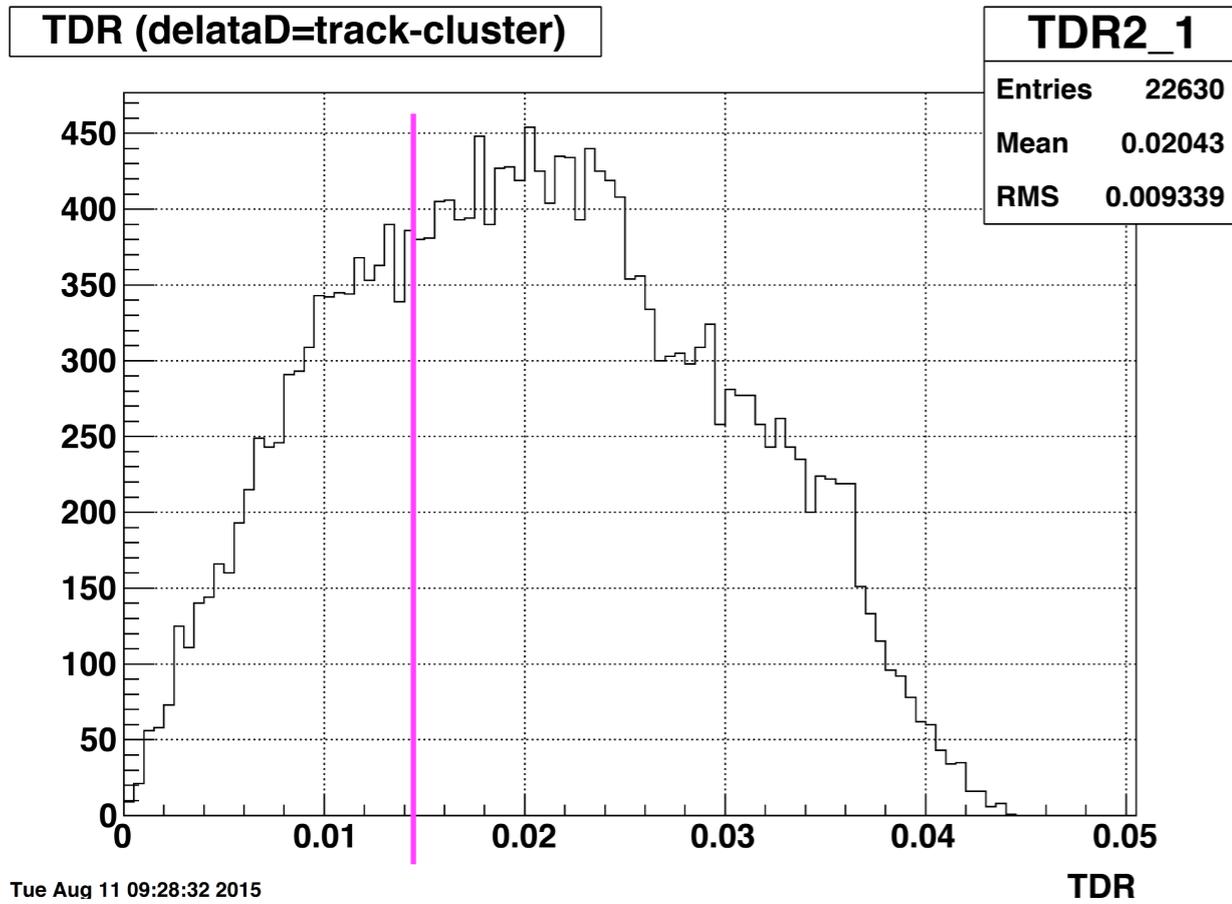
tower / 3x3

tower / 3x3

Track-cluster center \rightarrow TDR

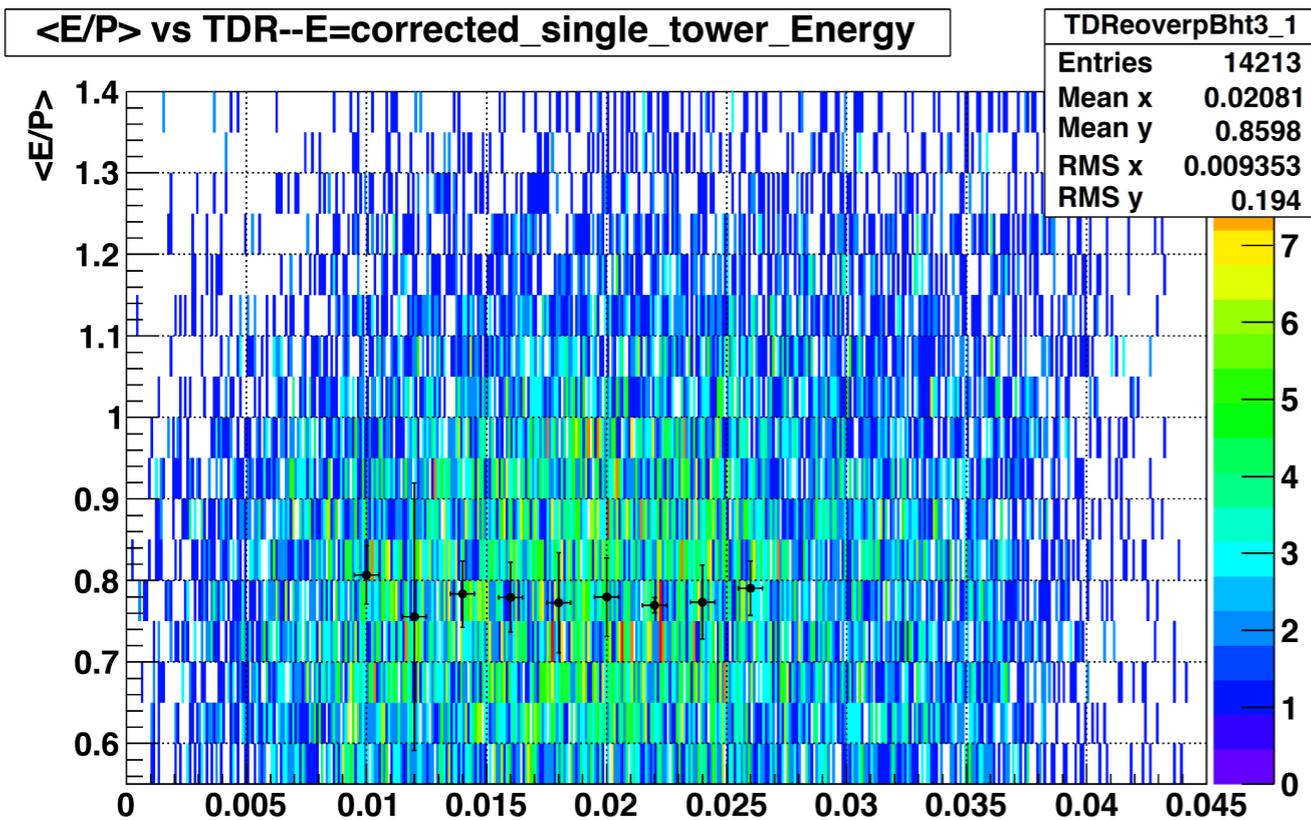


ring 1 TDR distributions ring 10



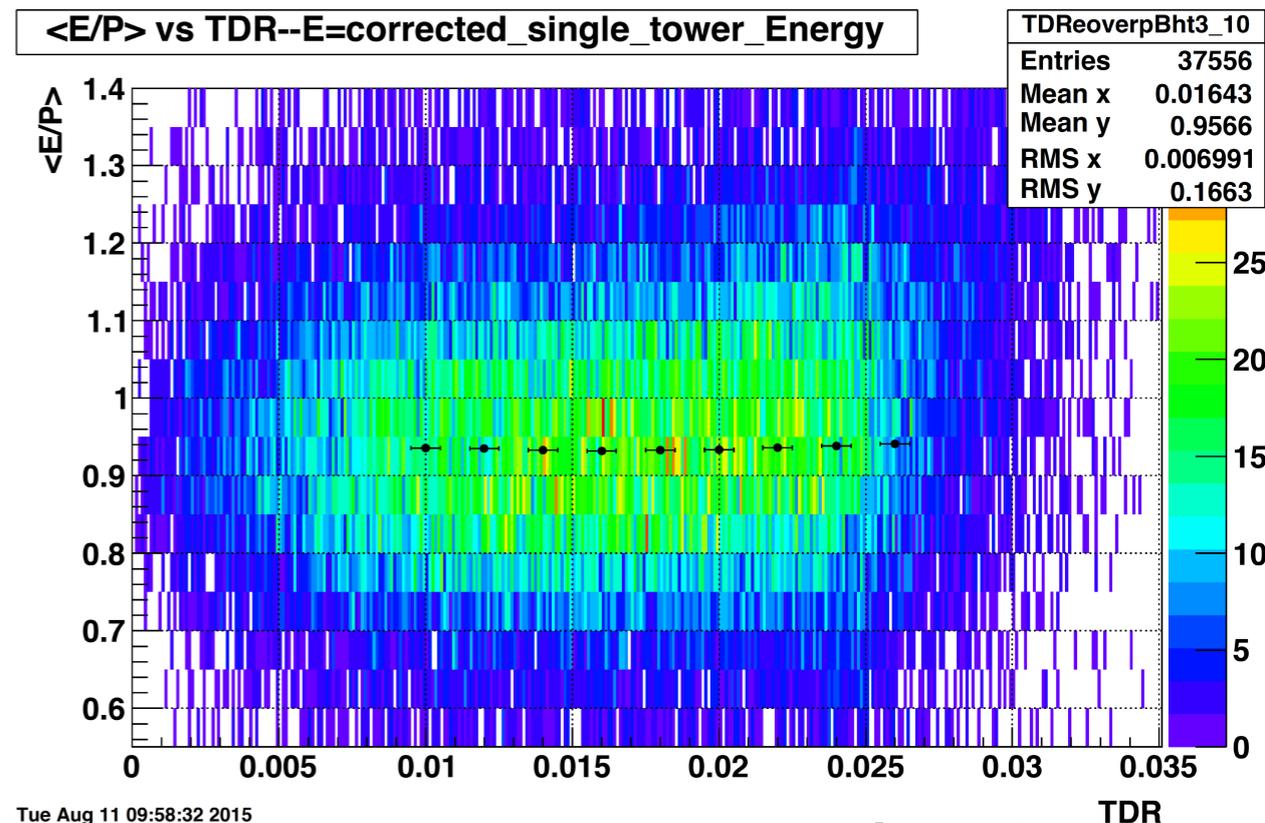
1E/P vs TDR cut

ring 1



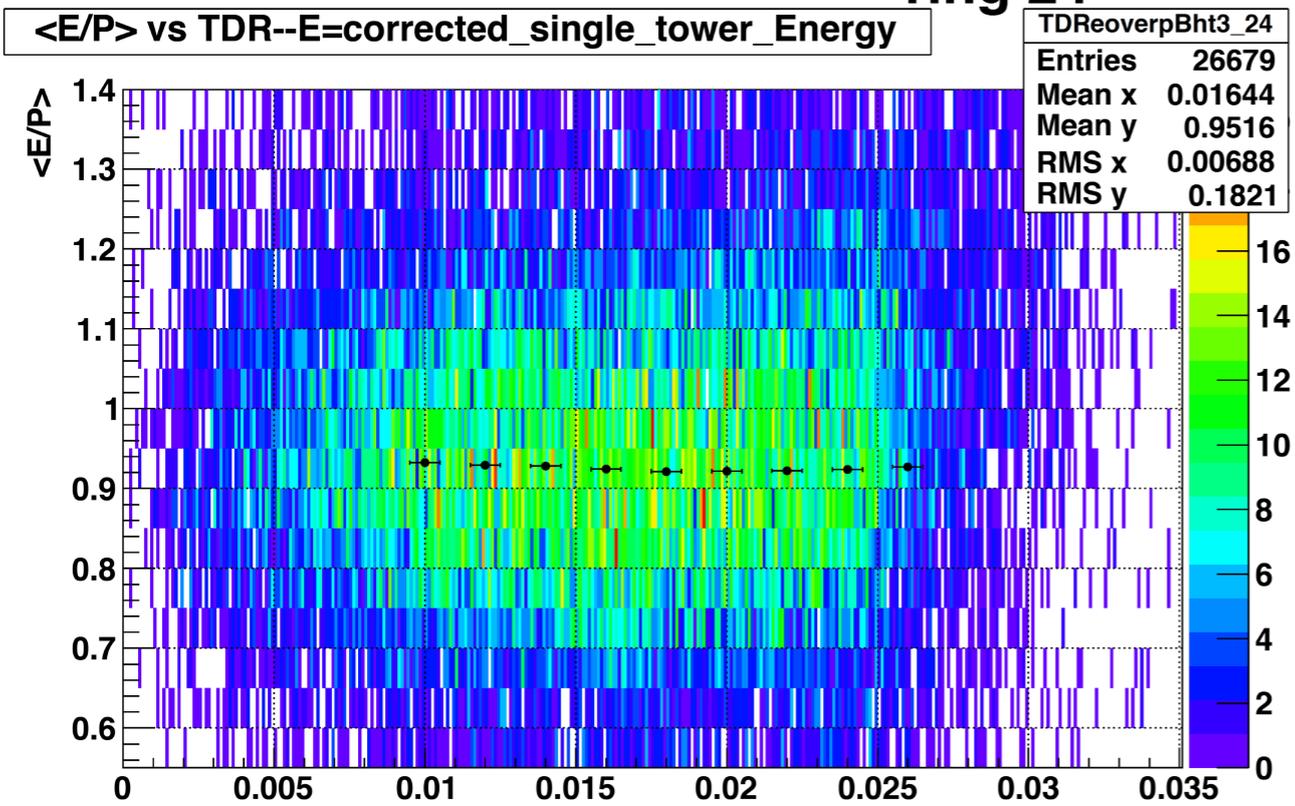
Tue Aug 11 09:58:31 2015

ring 10



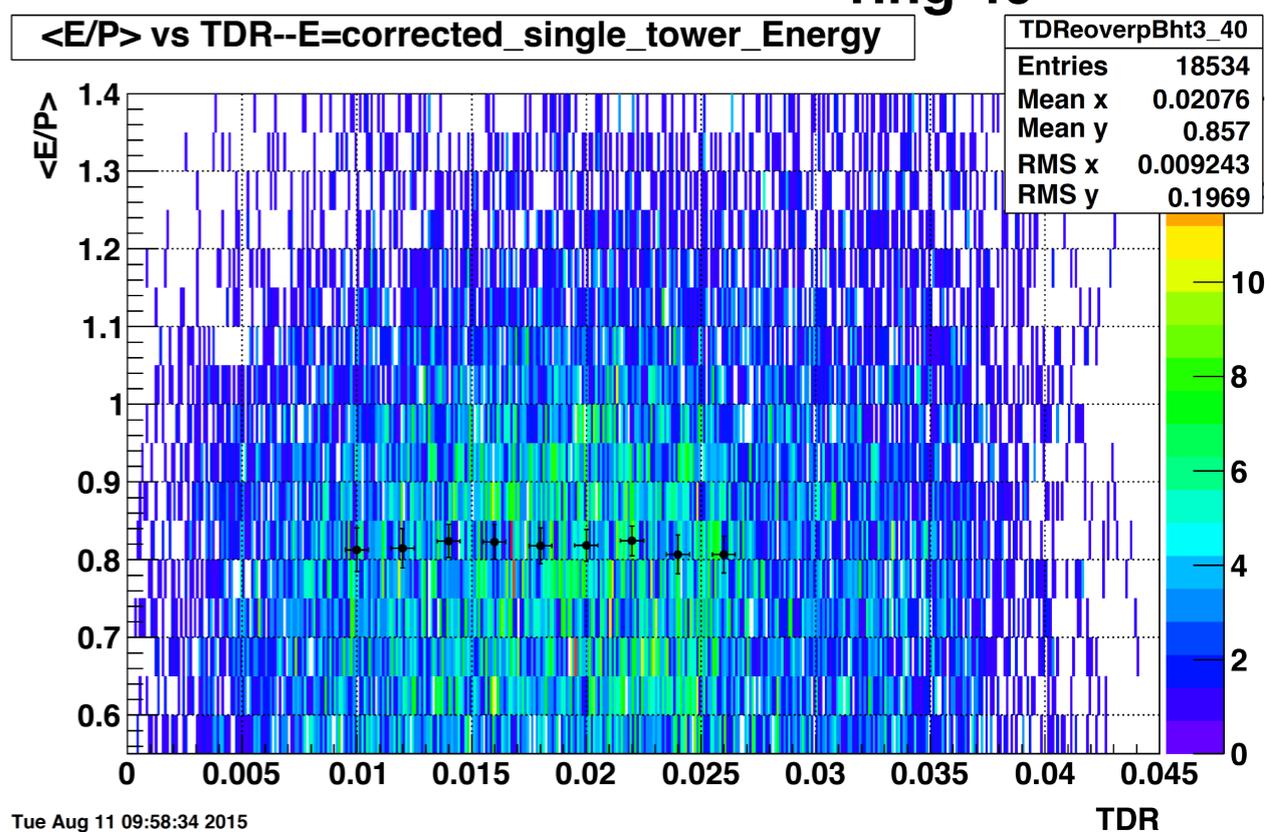
Tue Aug 11 09:58:32 2015

ring 24



Tue Aug 11 09:58:33 2015

ring 40

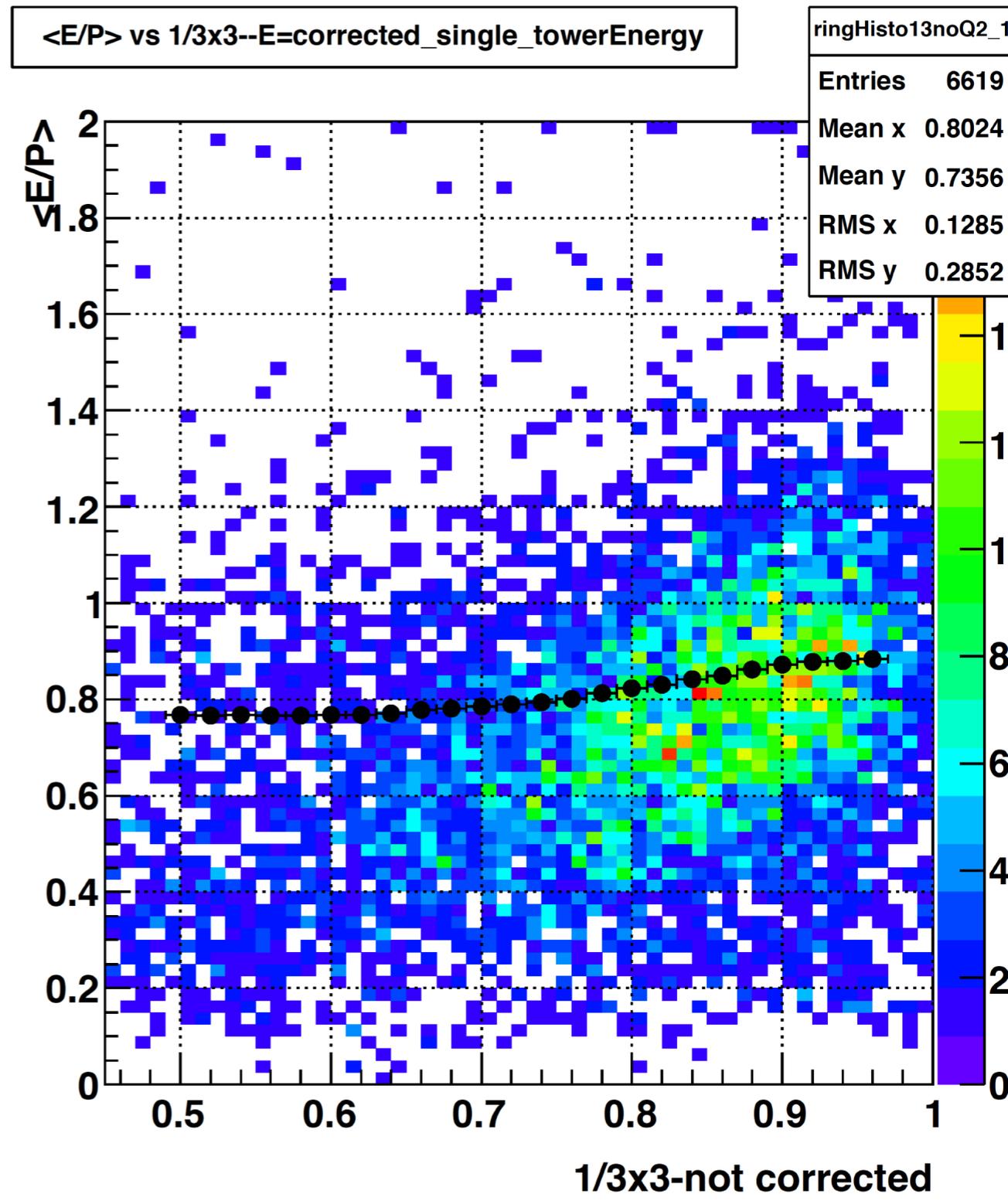
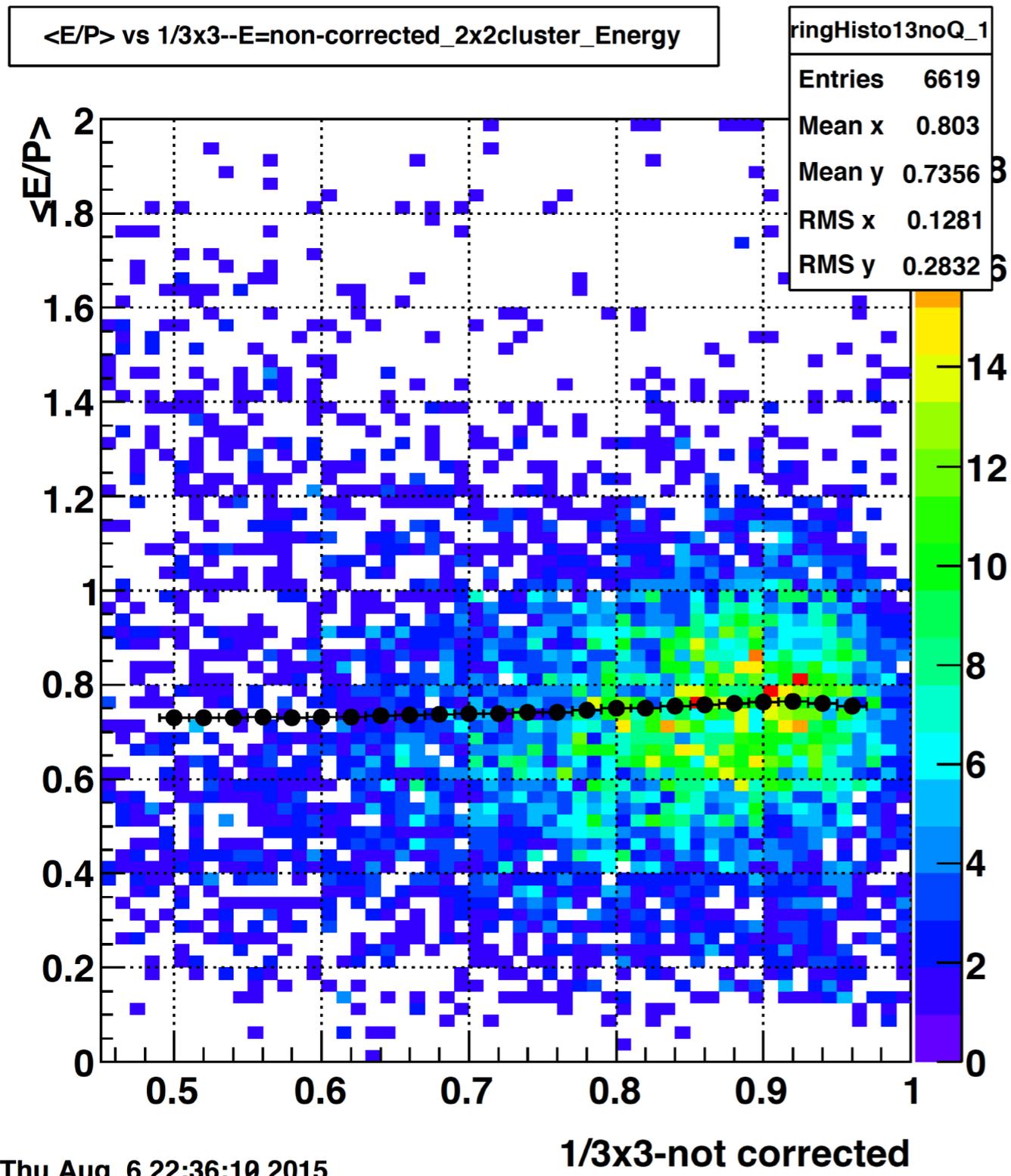


Tue Aug 11 09:58:34 2015

isolation ratio

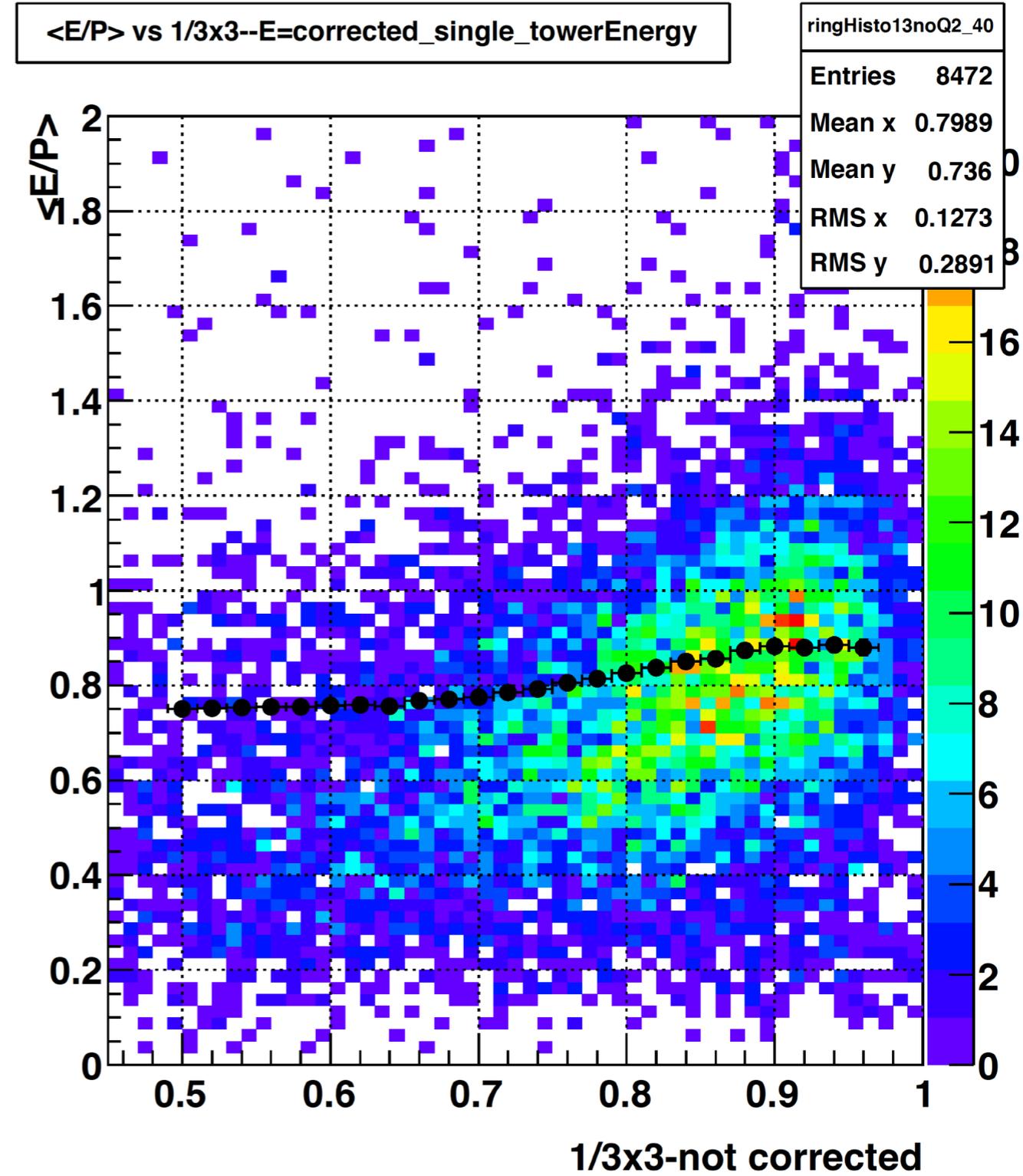
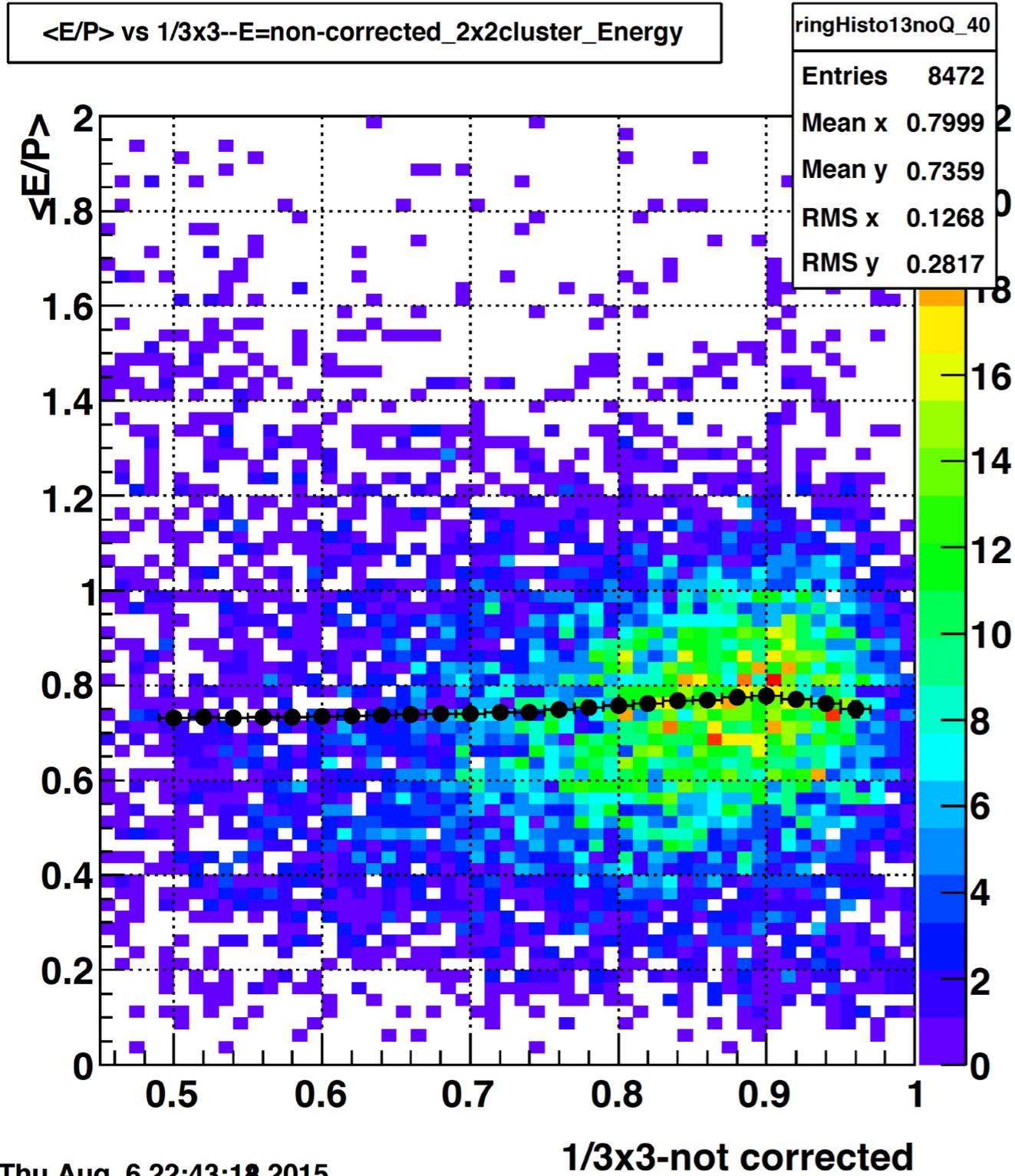
ringID == 1

E/P vs 1/3x3 ratio

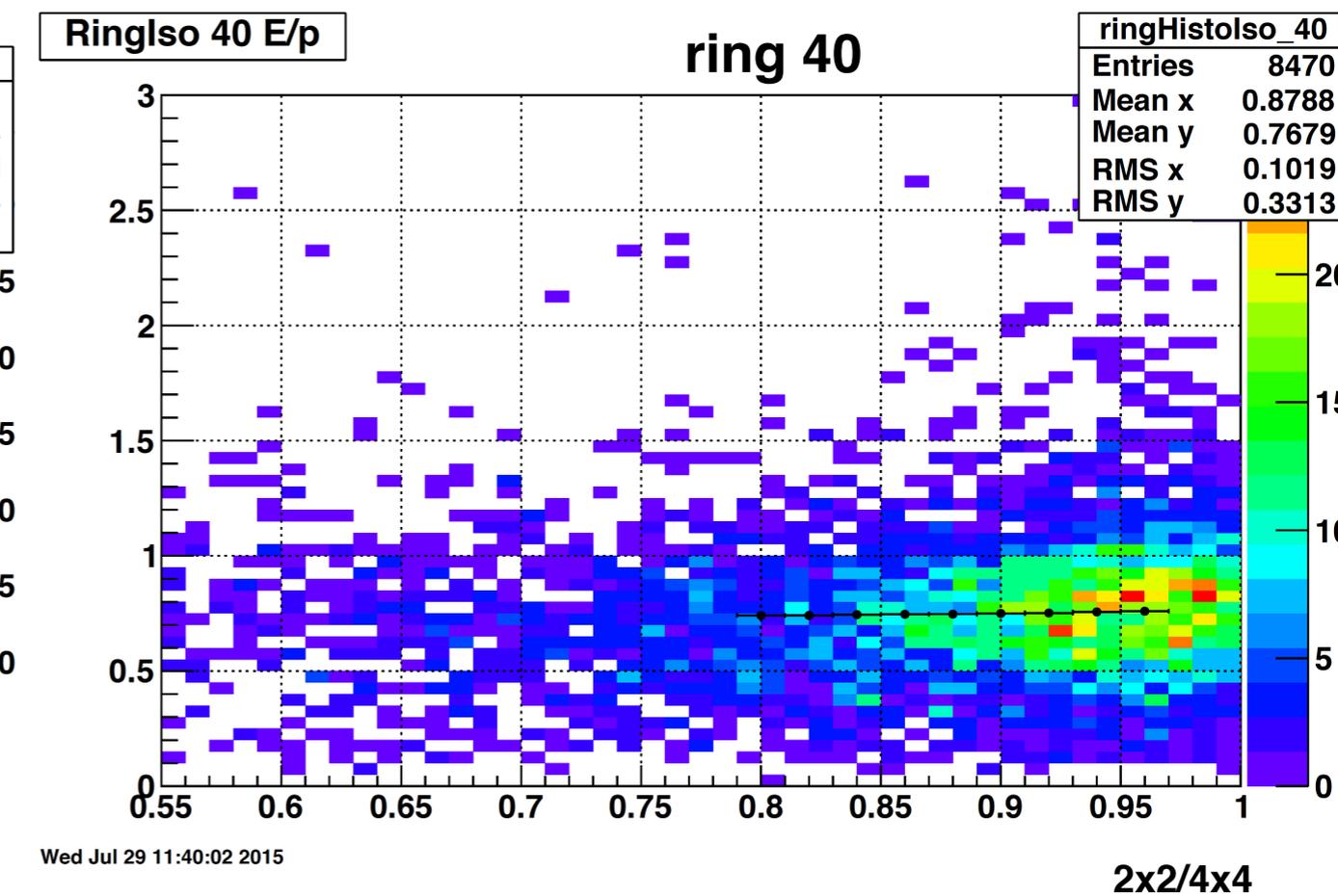
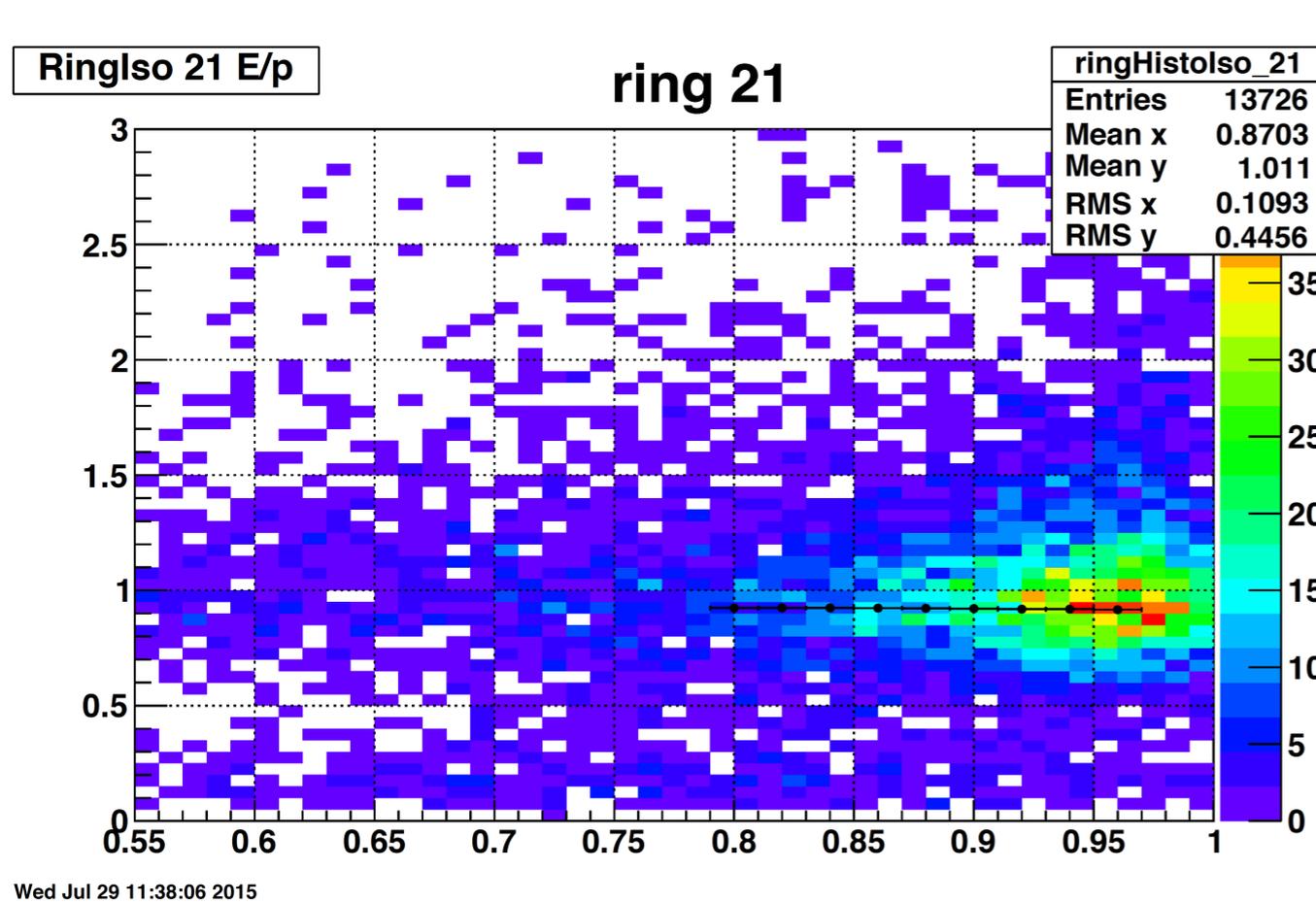
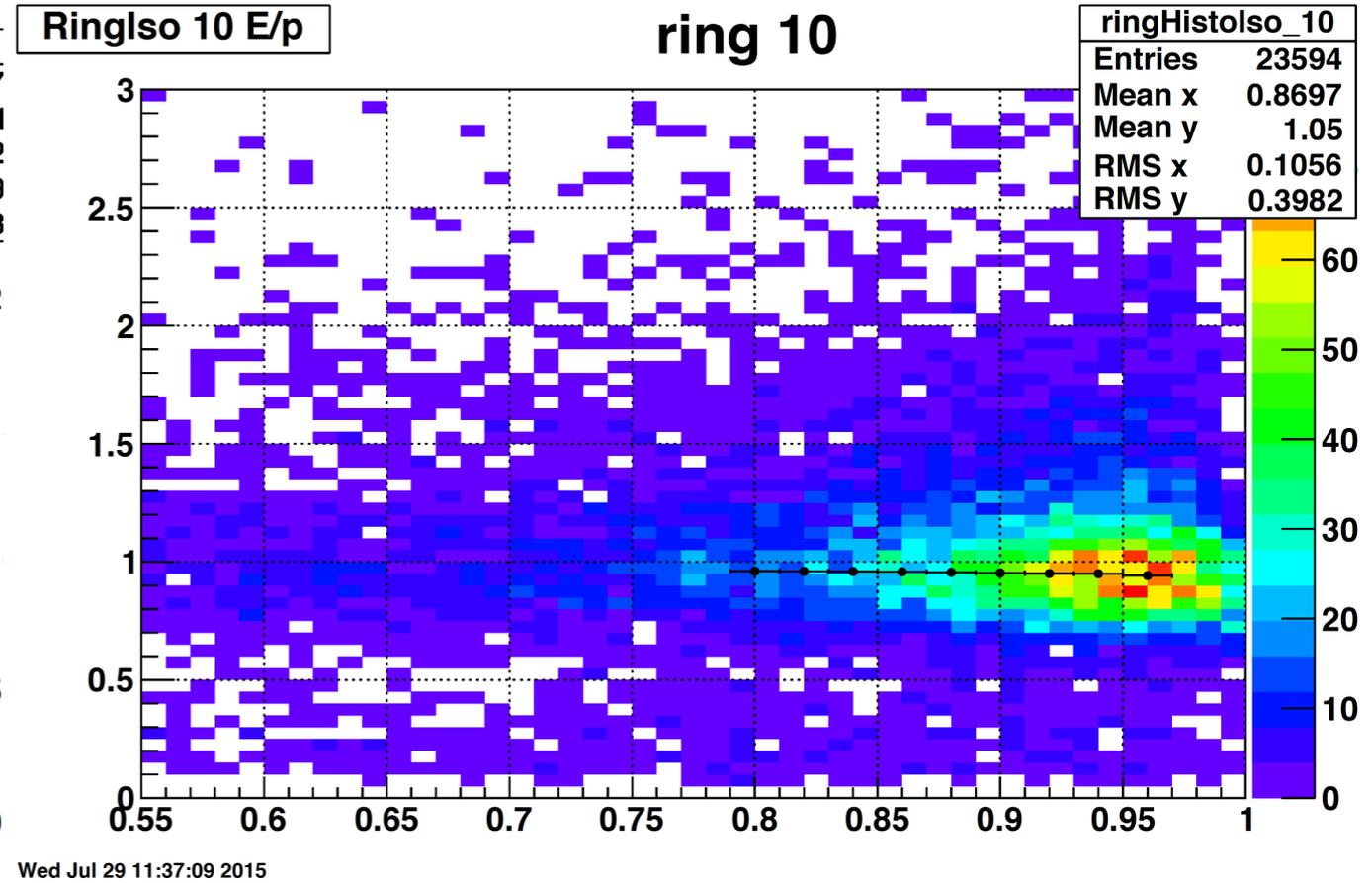
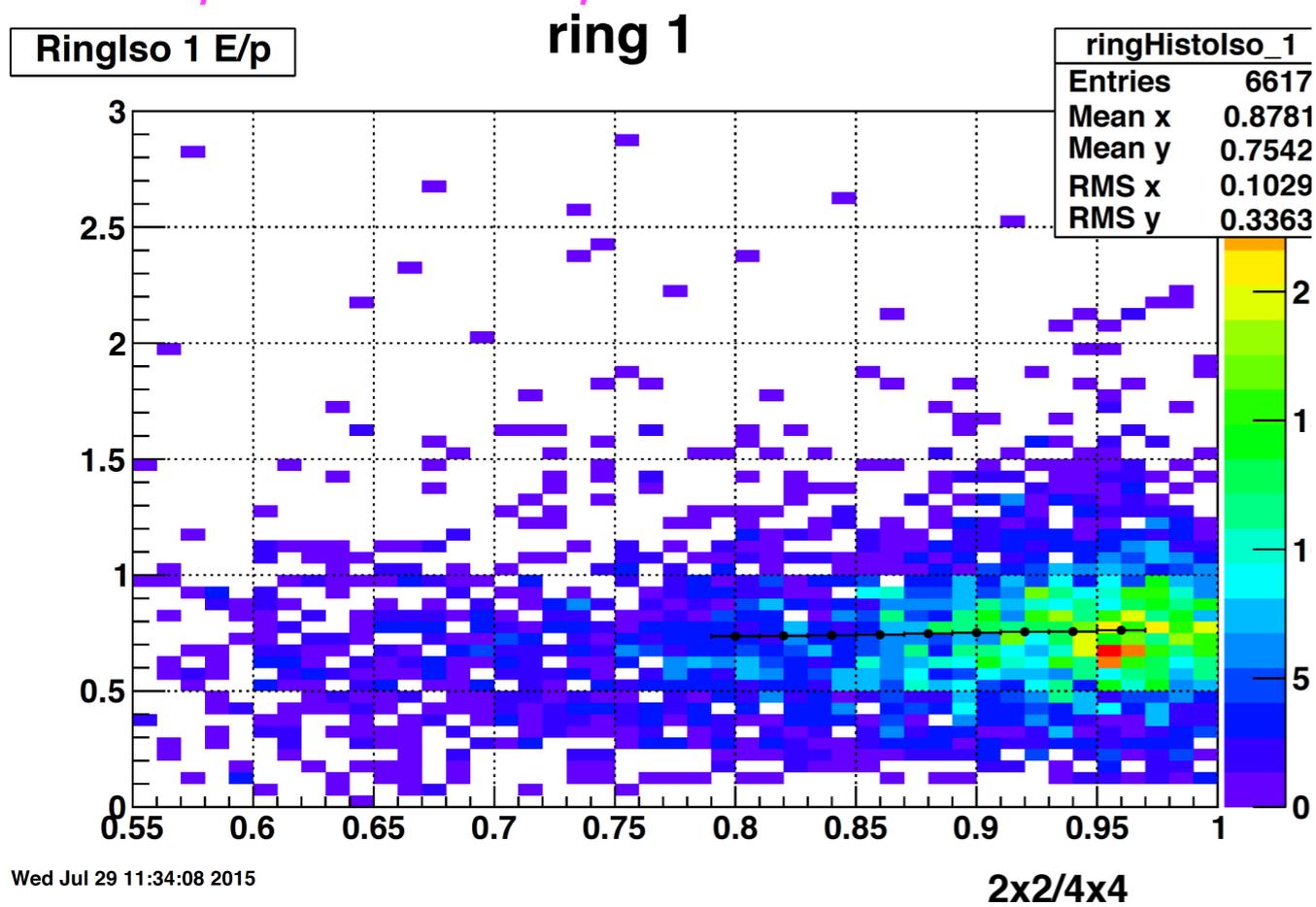


E/P vs 1/3x3 ratio

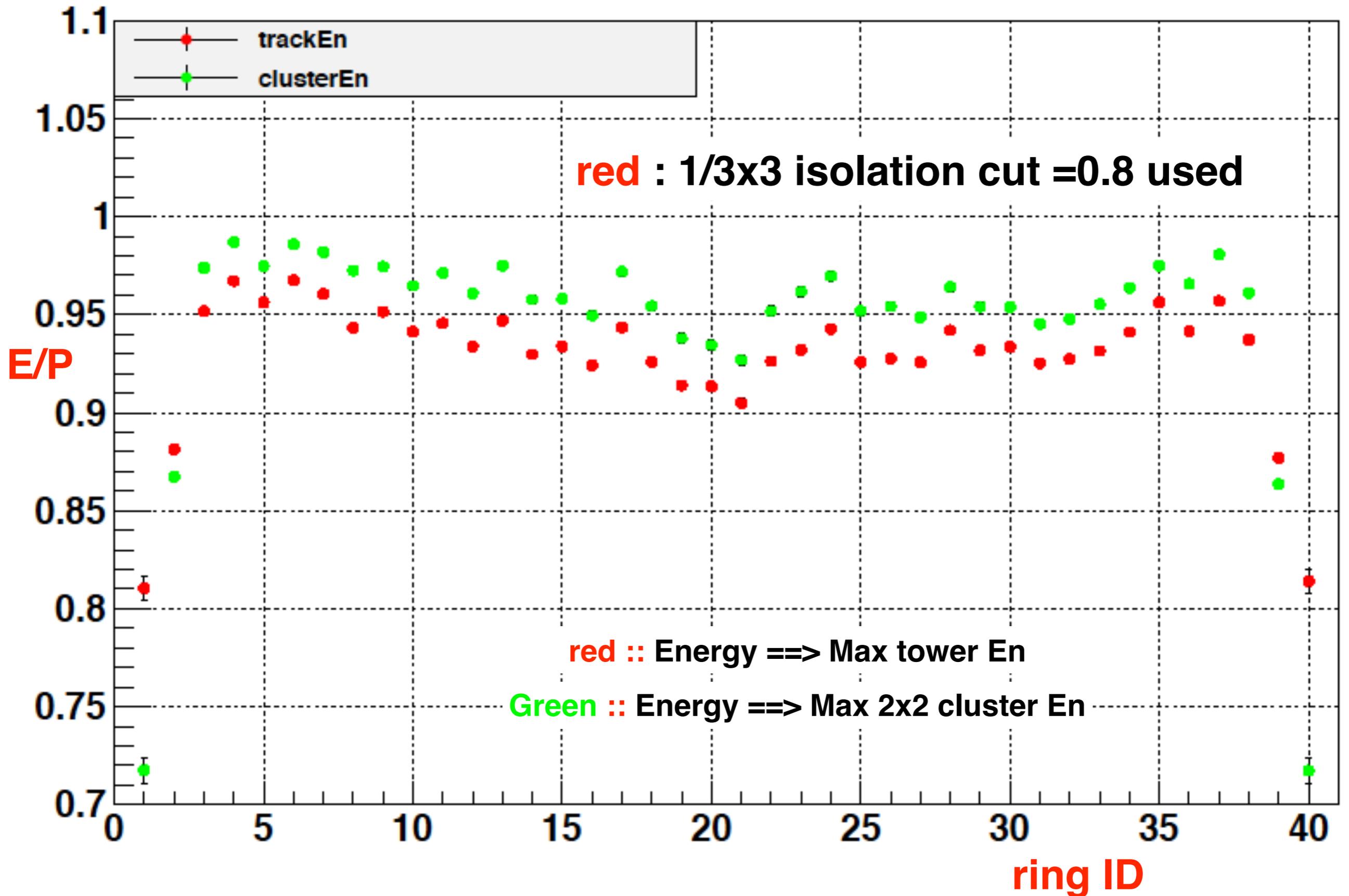
ringID == 40



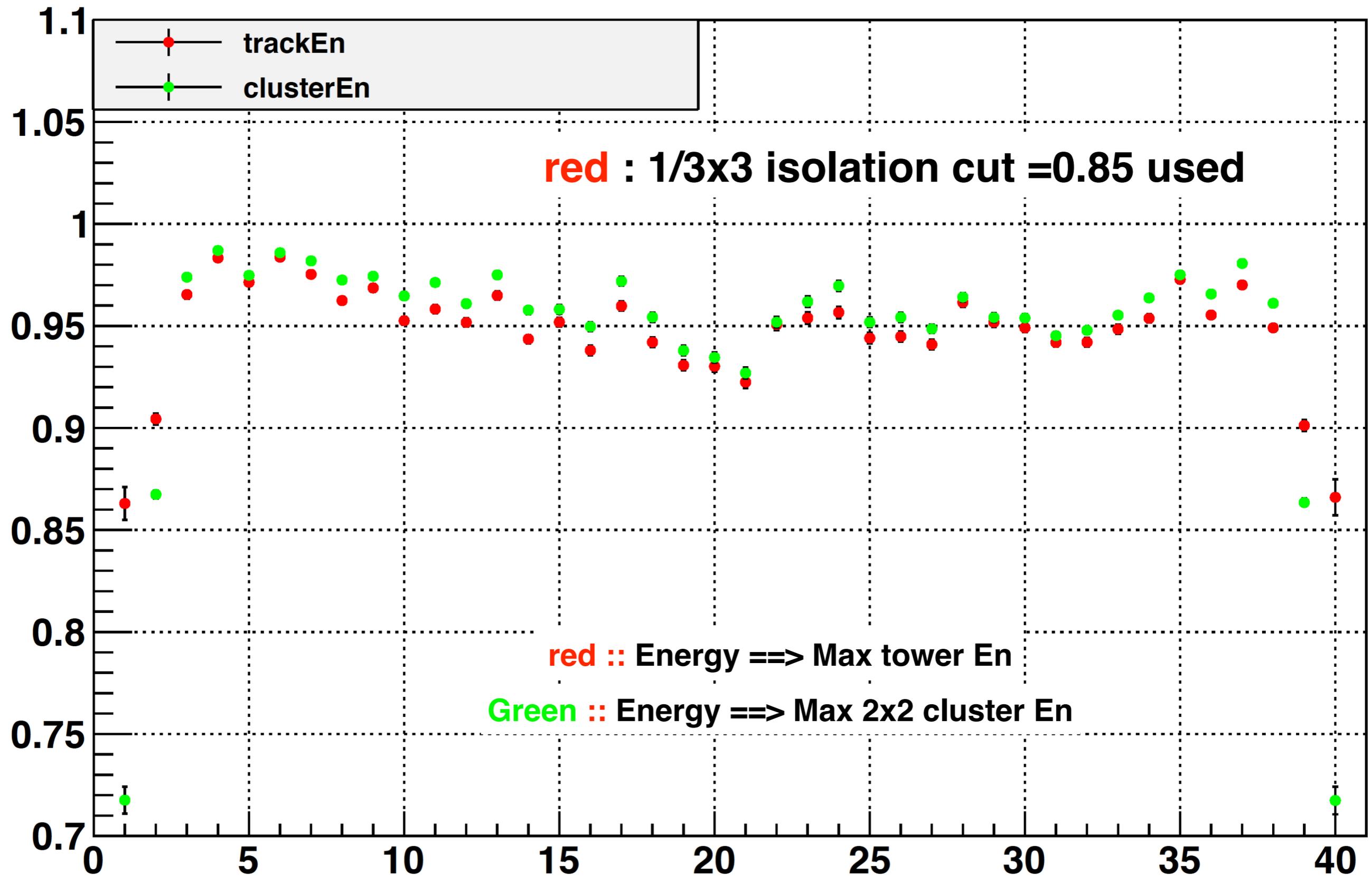
E/P vs 2x2/4x4 ratio



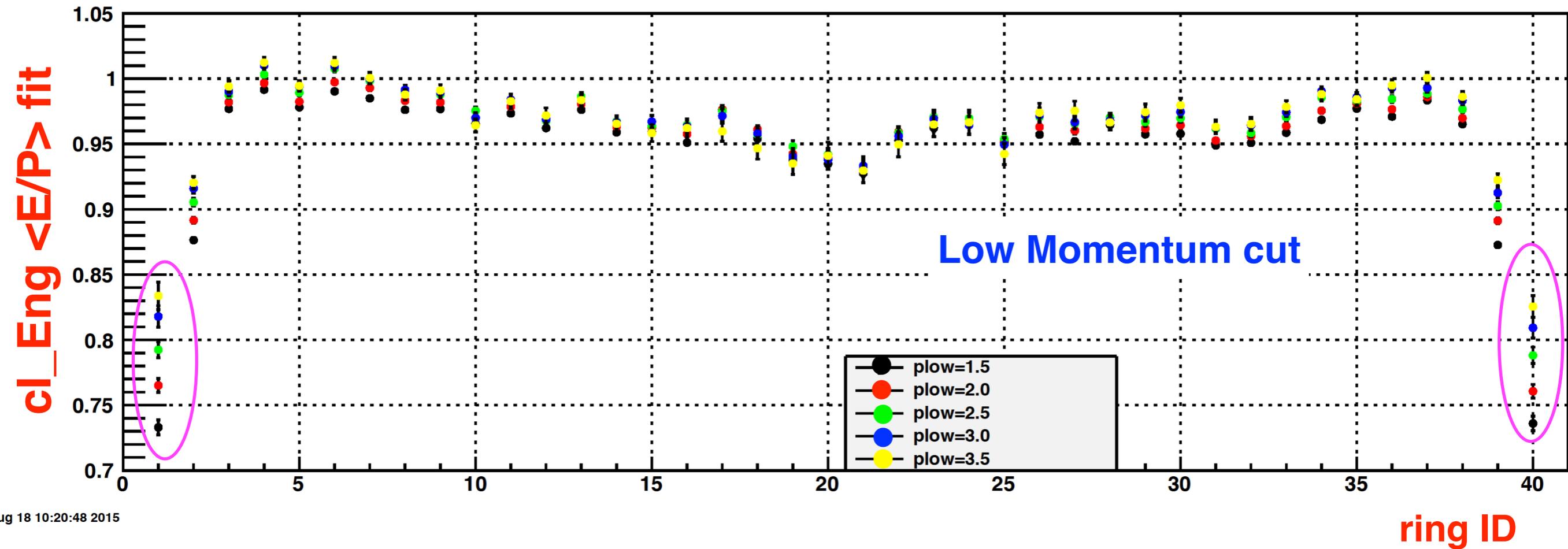
$\langle E/P \rangle$ with single tower energy and 2x2 cluster energy



$\langle E/P \rangle$ with single tower energy and 2x2 cluster energy



Low Momentum cut to reduce BG at outermost rings NOT isolation cuts



ring 1

