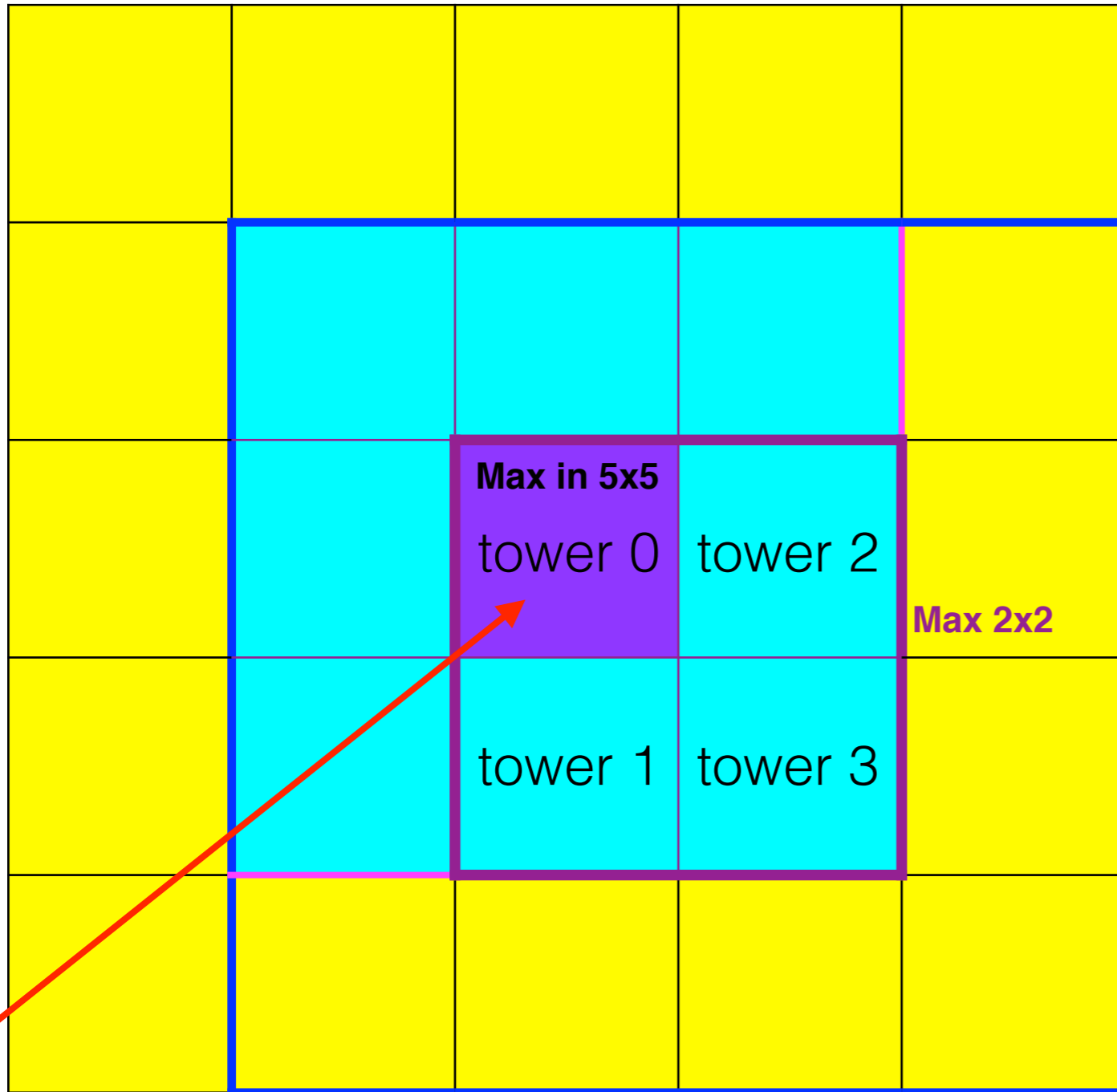


2x2 Cluster Energy Method

Cluster Energy

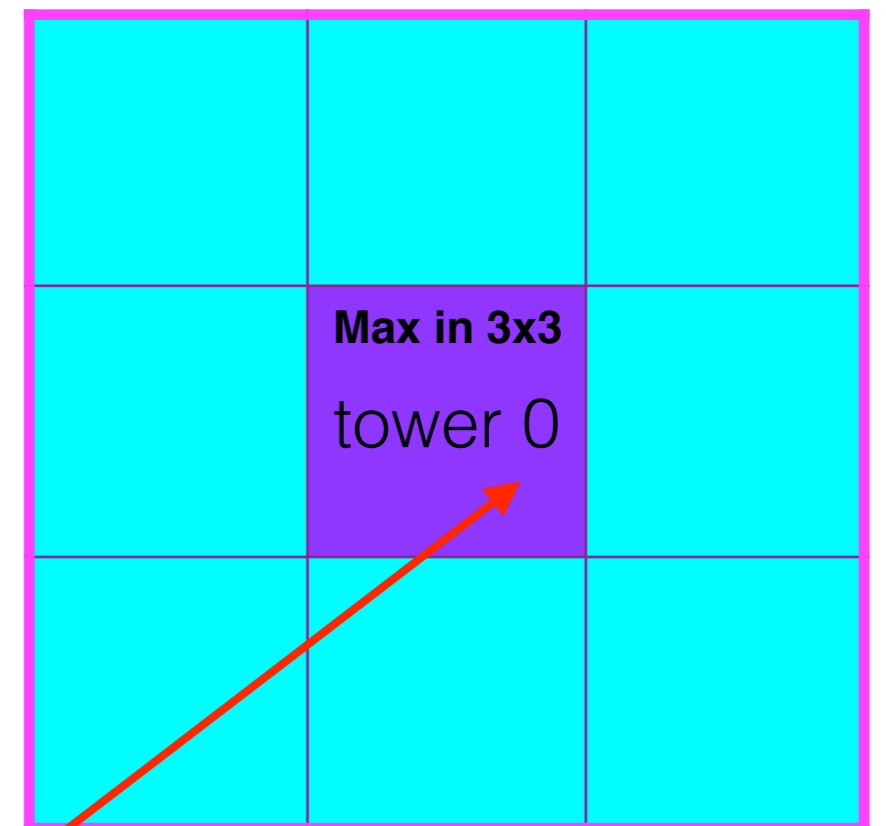
5x5



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

Tower Energy

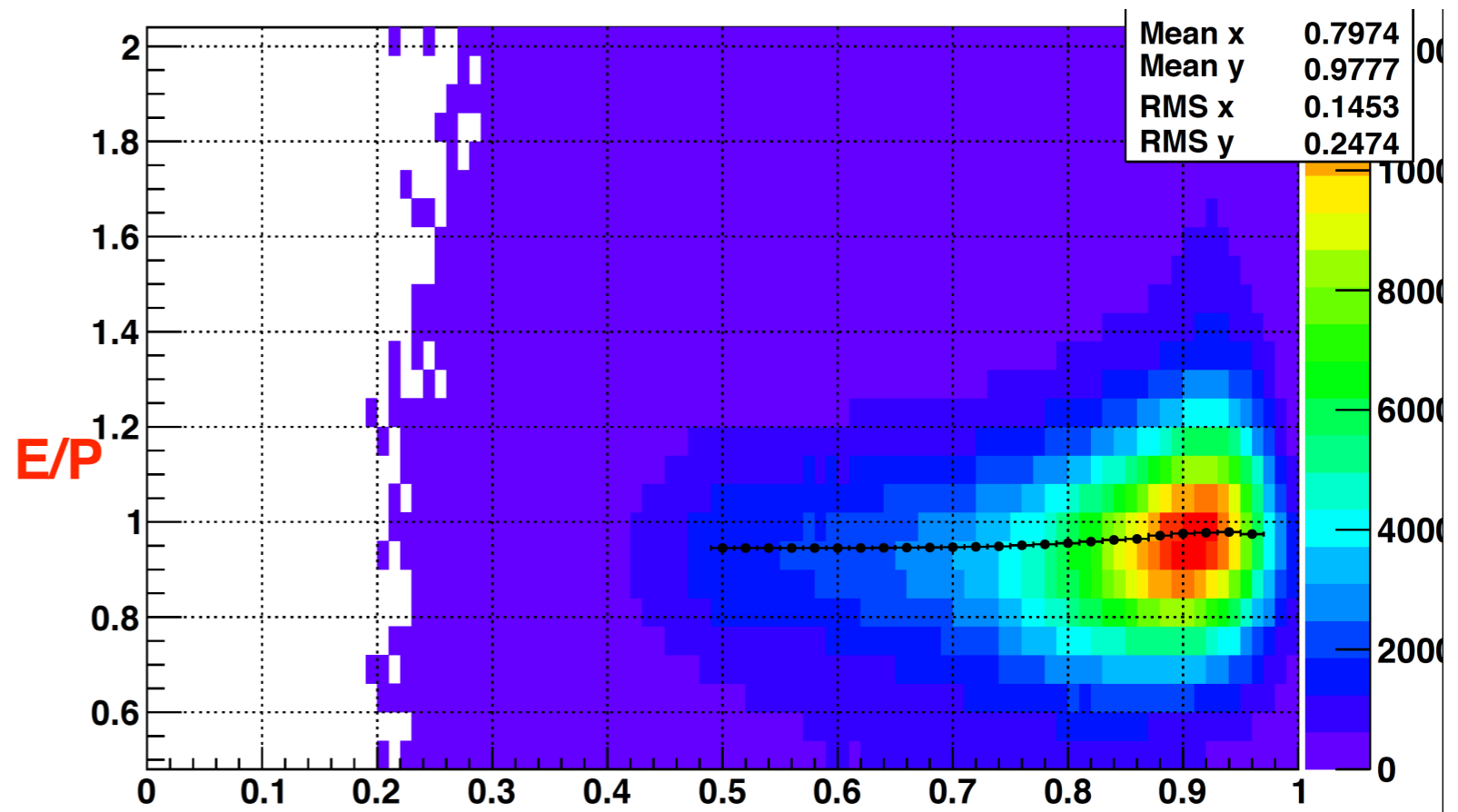
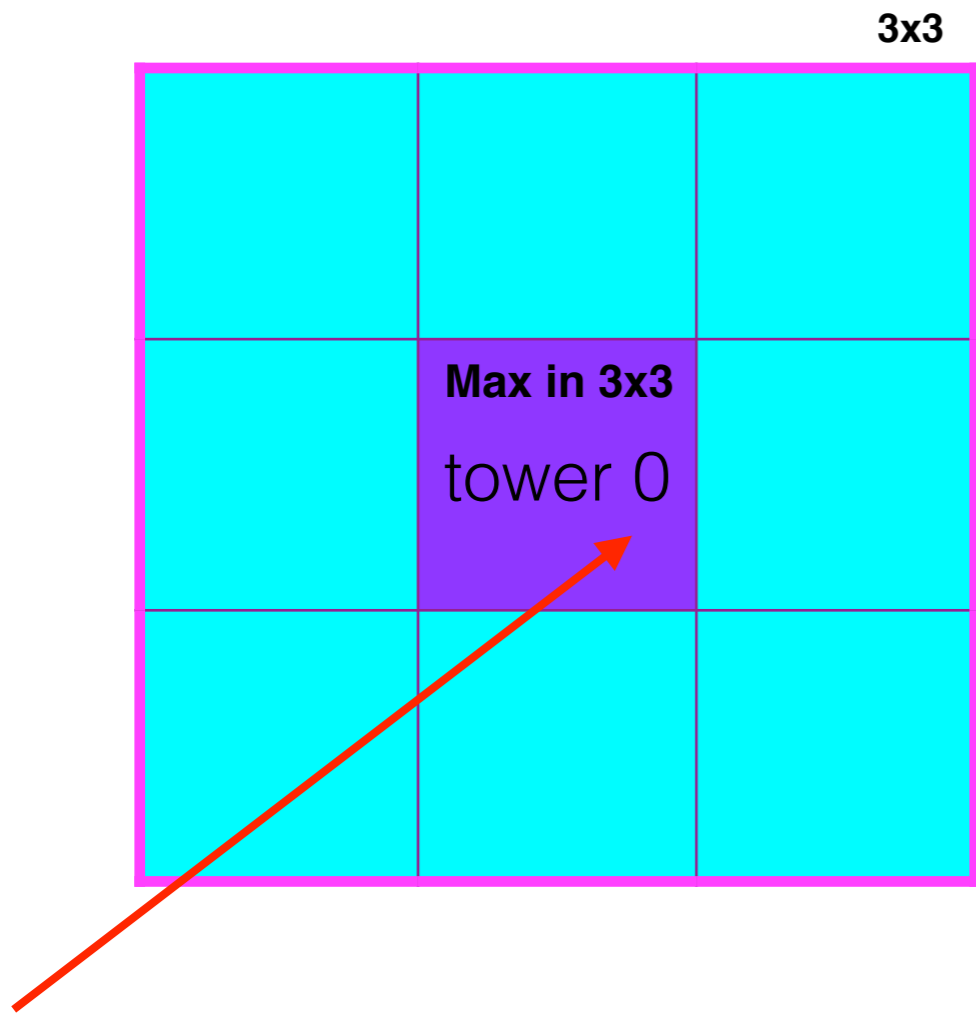
3x3



Isolation Ratio == Max towerEn / 3x3 En

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

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

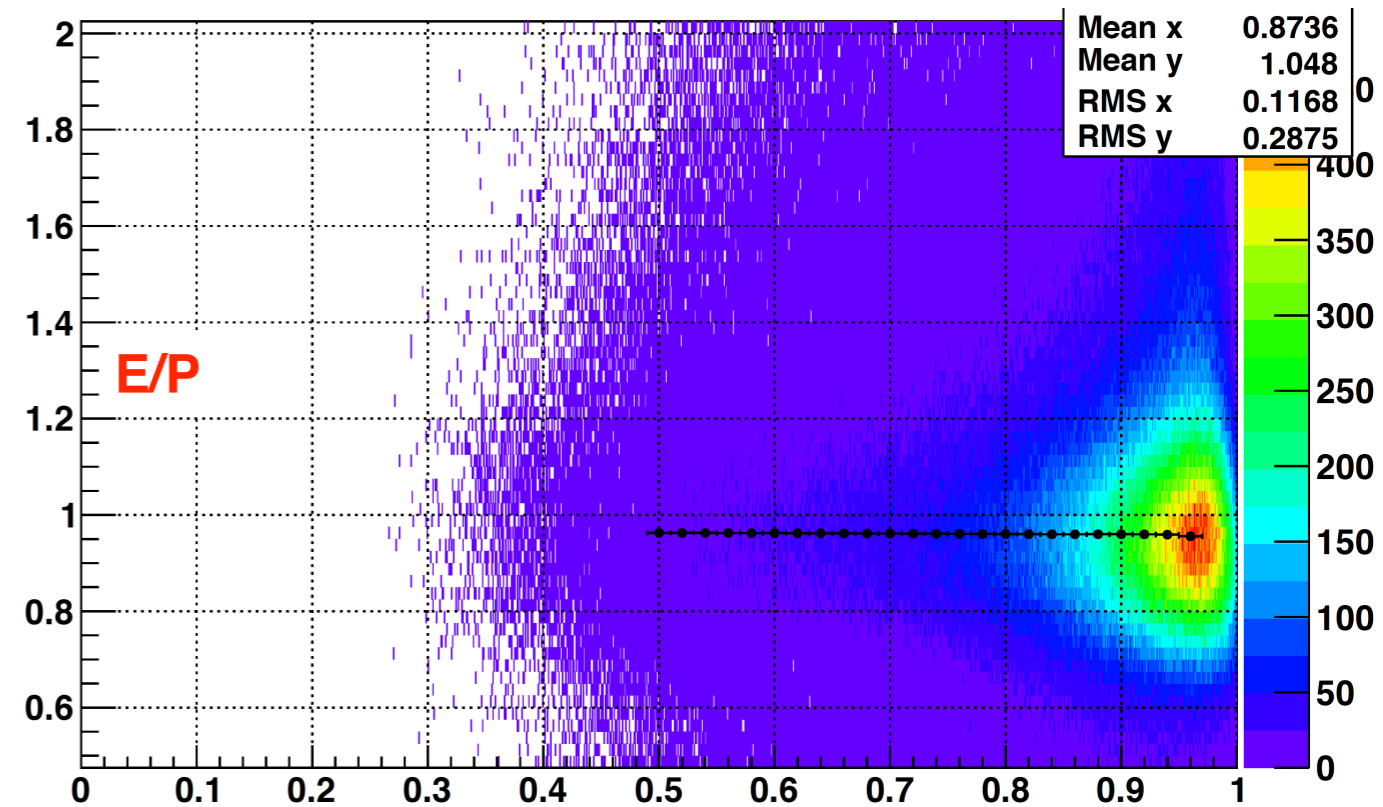
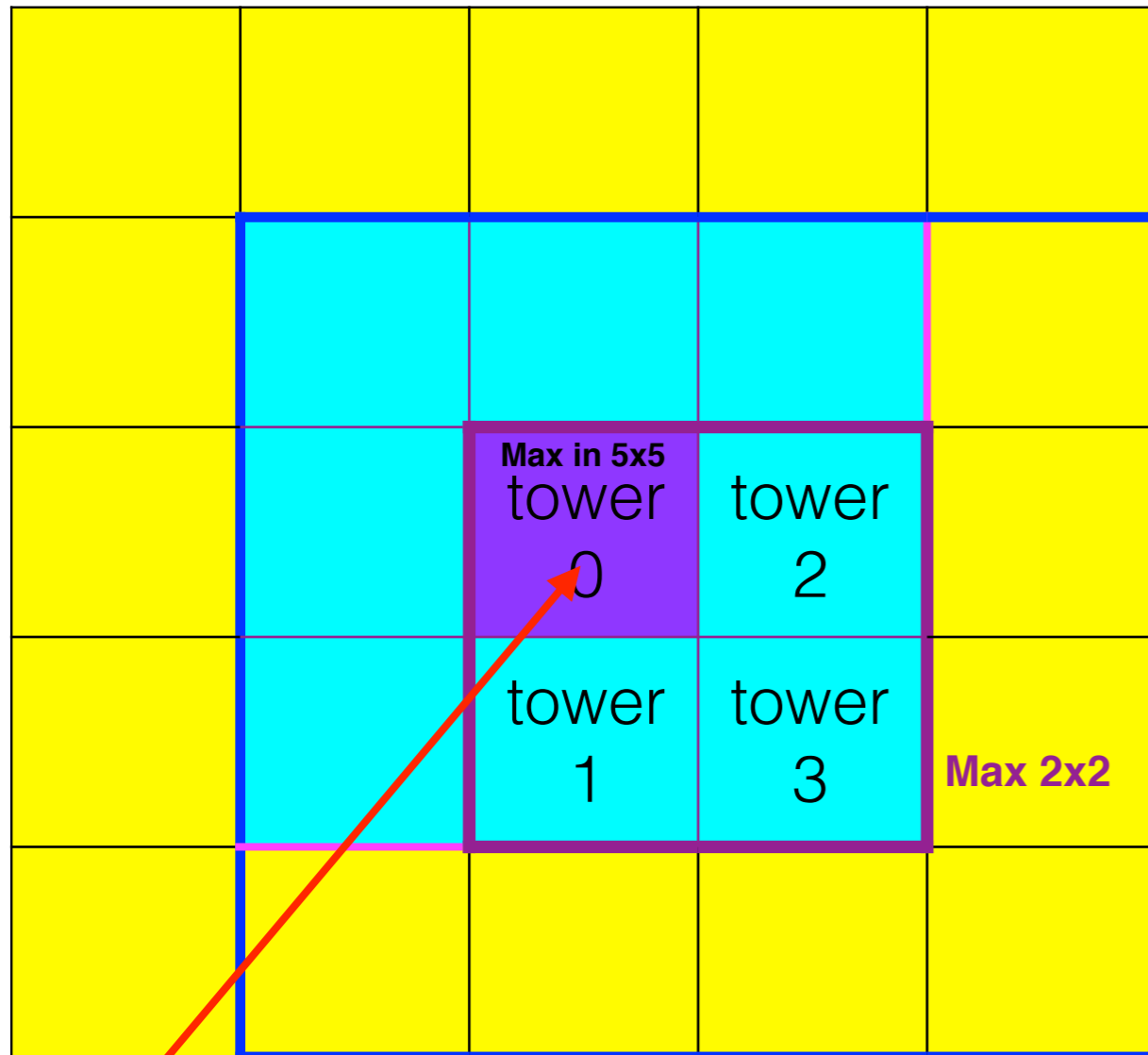


isolation ratio

Isolation Ratio == Max towerEn / 3x3 En

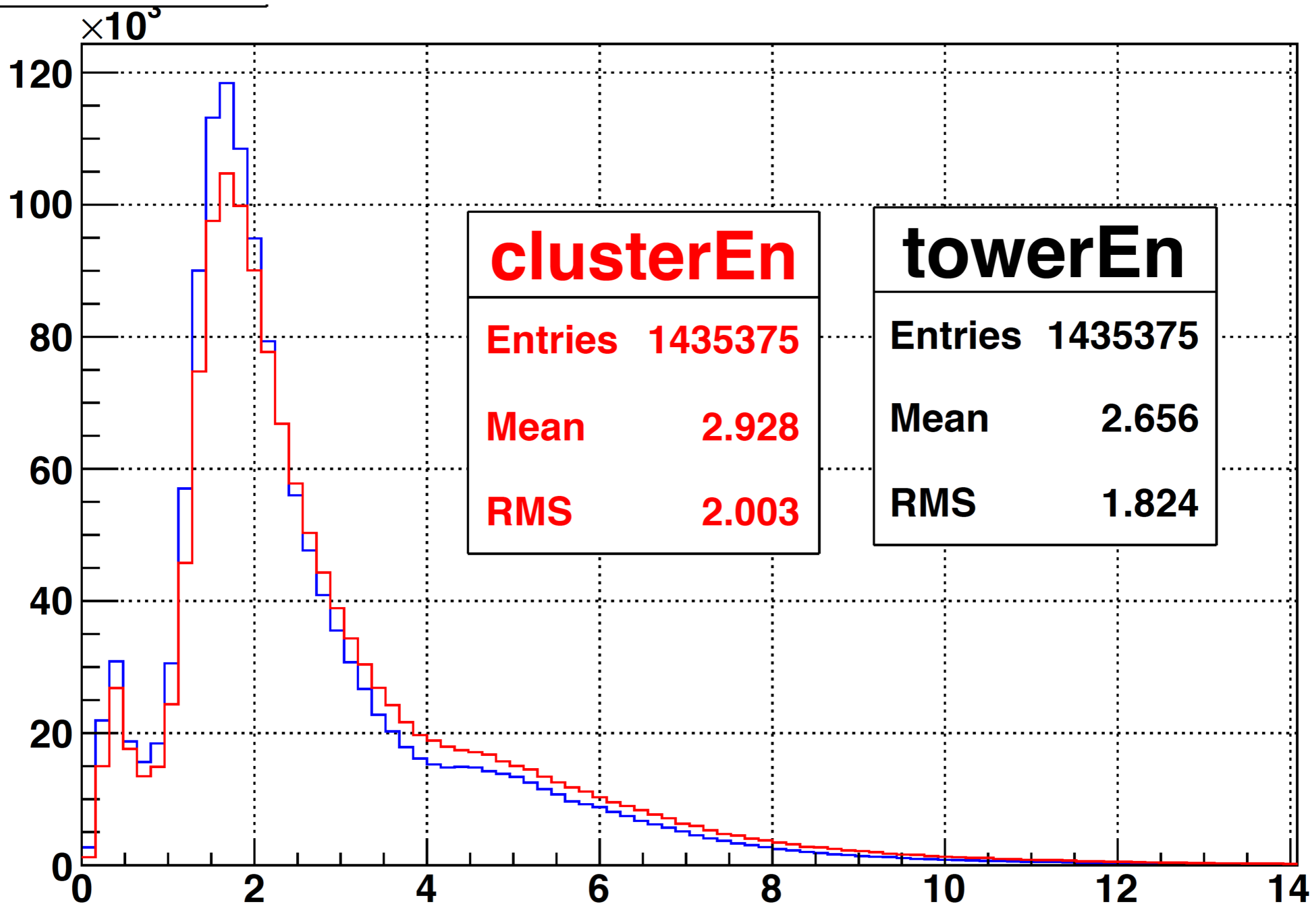
$$E/P = 2 \times 2 \text{ cluster energy} / \text{track } P$$

2x2 Cluster Energy

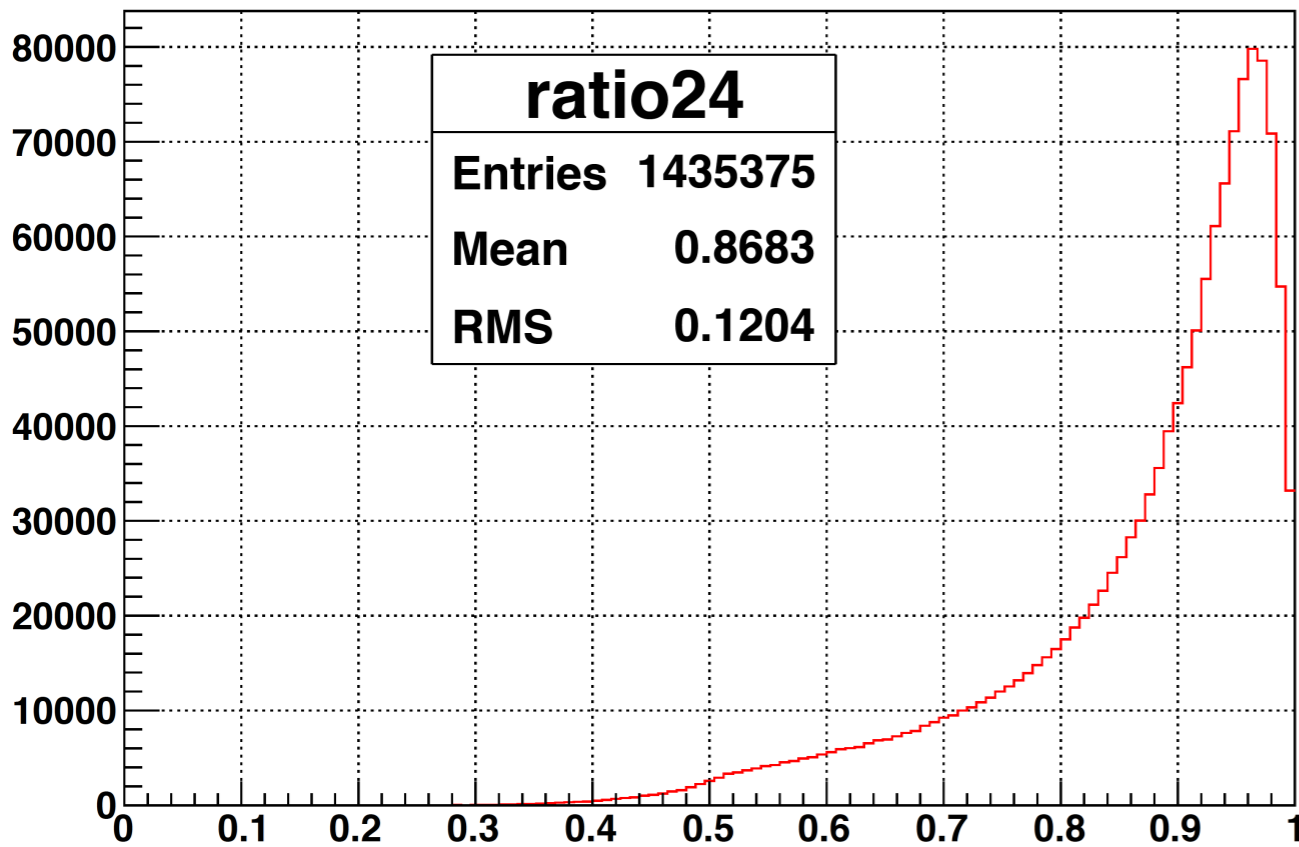


isolation ratio

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

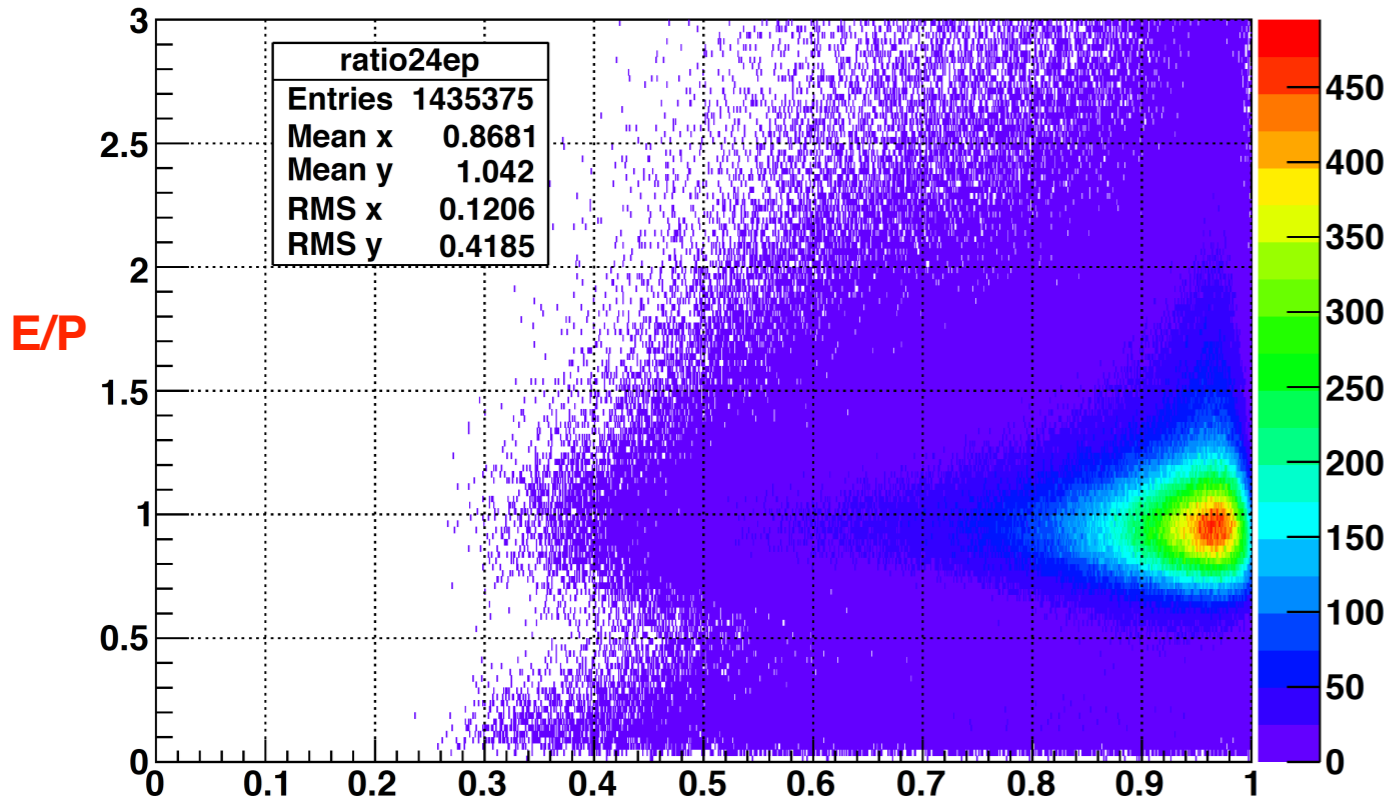


2x2over4x4



Wed Jul 29 09:29:20 2015

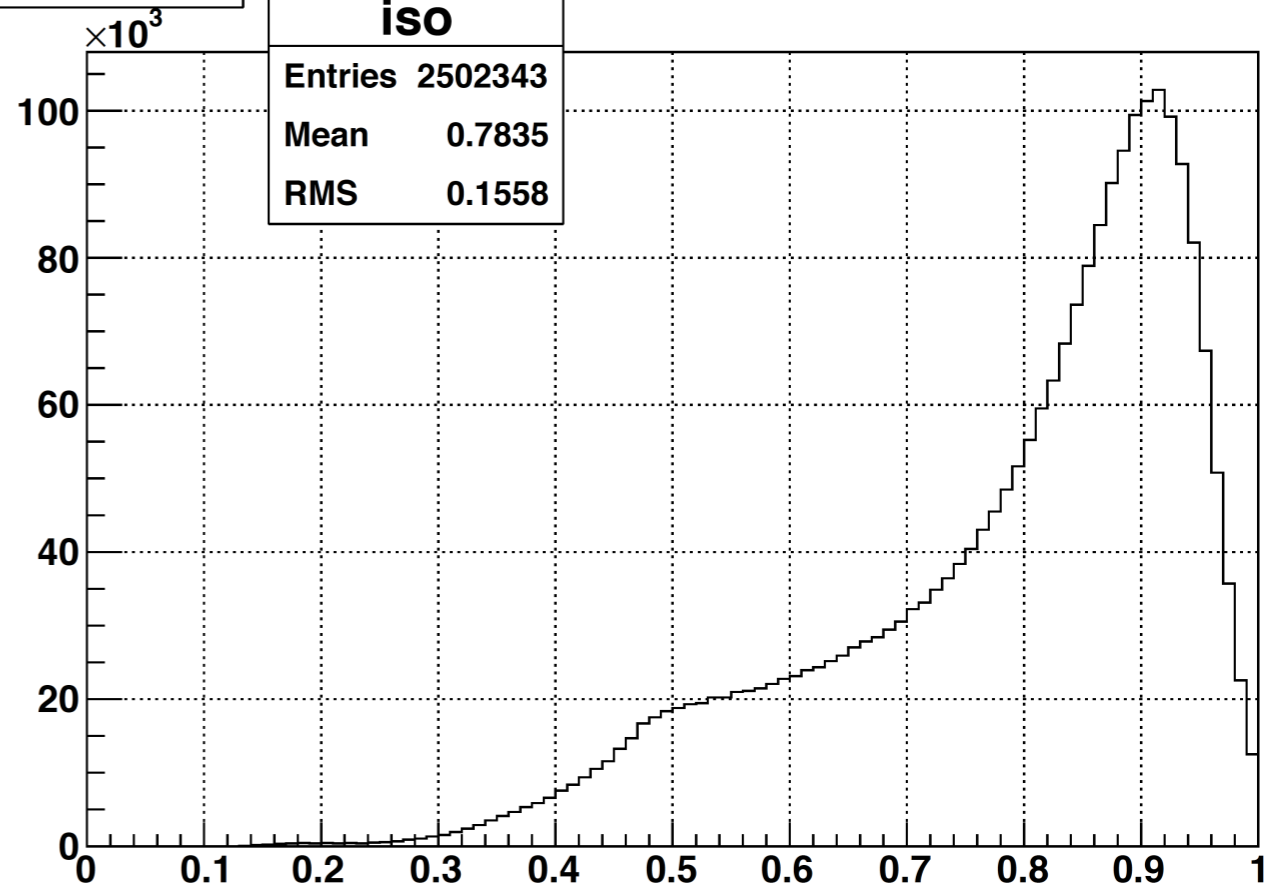
r24vsEoverP



Wed Jul 29 09:32:36 2015

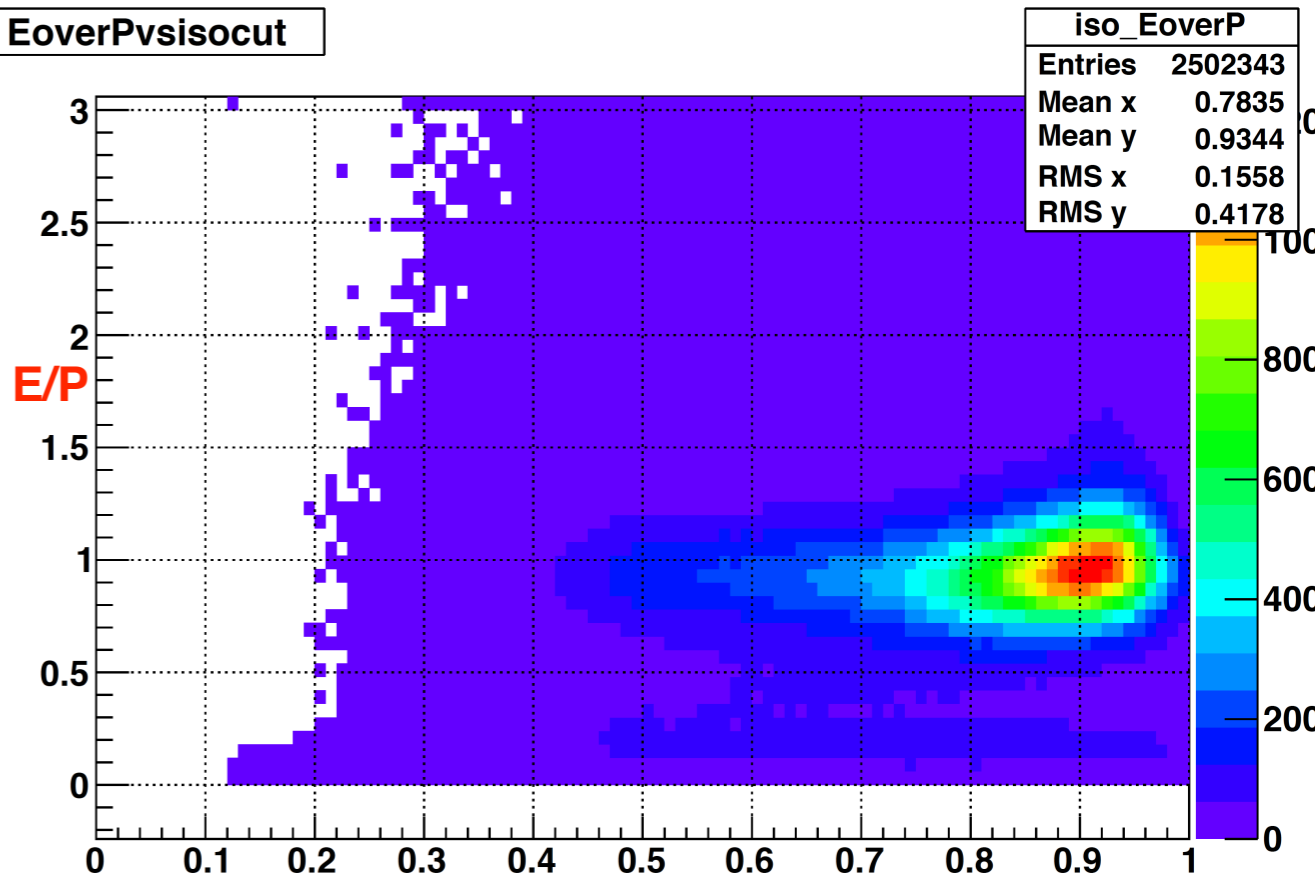
2x2 / 4x4

isolationcut



Tue May 12 09:12:45 2015

EoverPvsisocut



Tue May 12 09:15:00 2015

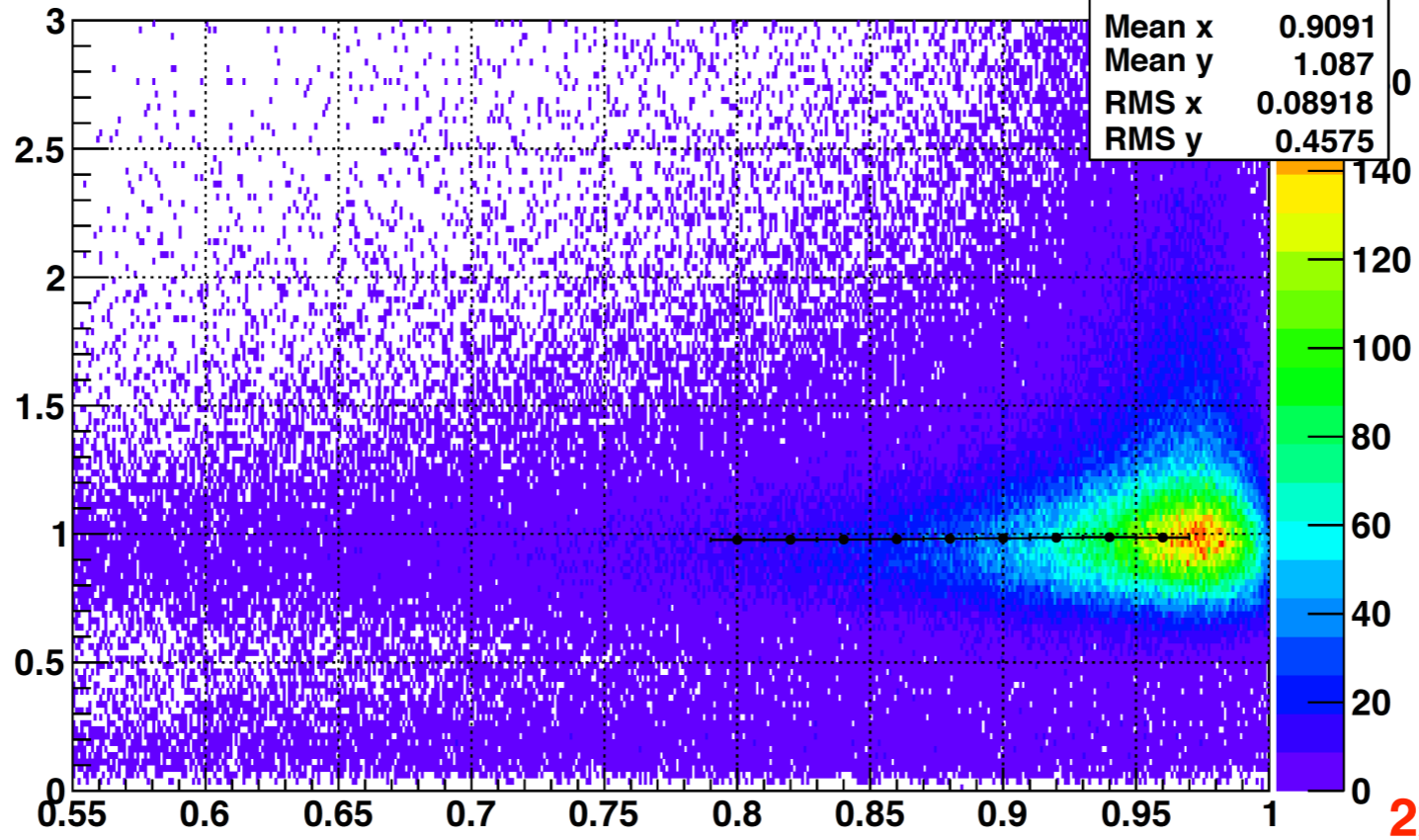
tower / 3x3

E/P

r24vsEoverP_BHT1

BHT1 - trigger

ratio24epBHT1	
Entries	323404
Mean x	0.9091
Mean y	1.087
RMS x	0.08918
RMS y	0.4575



2x2 / 4x4

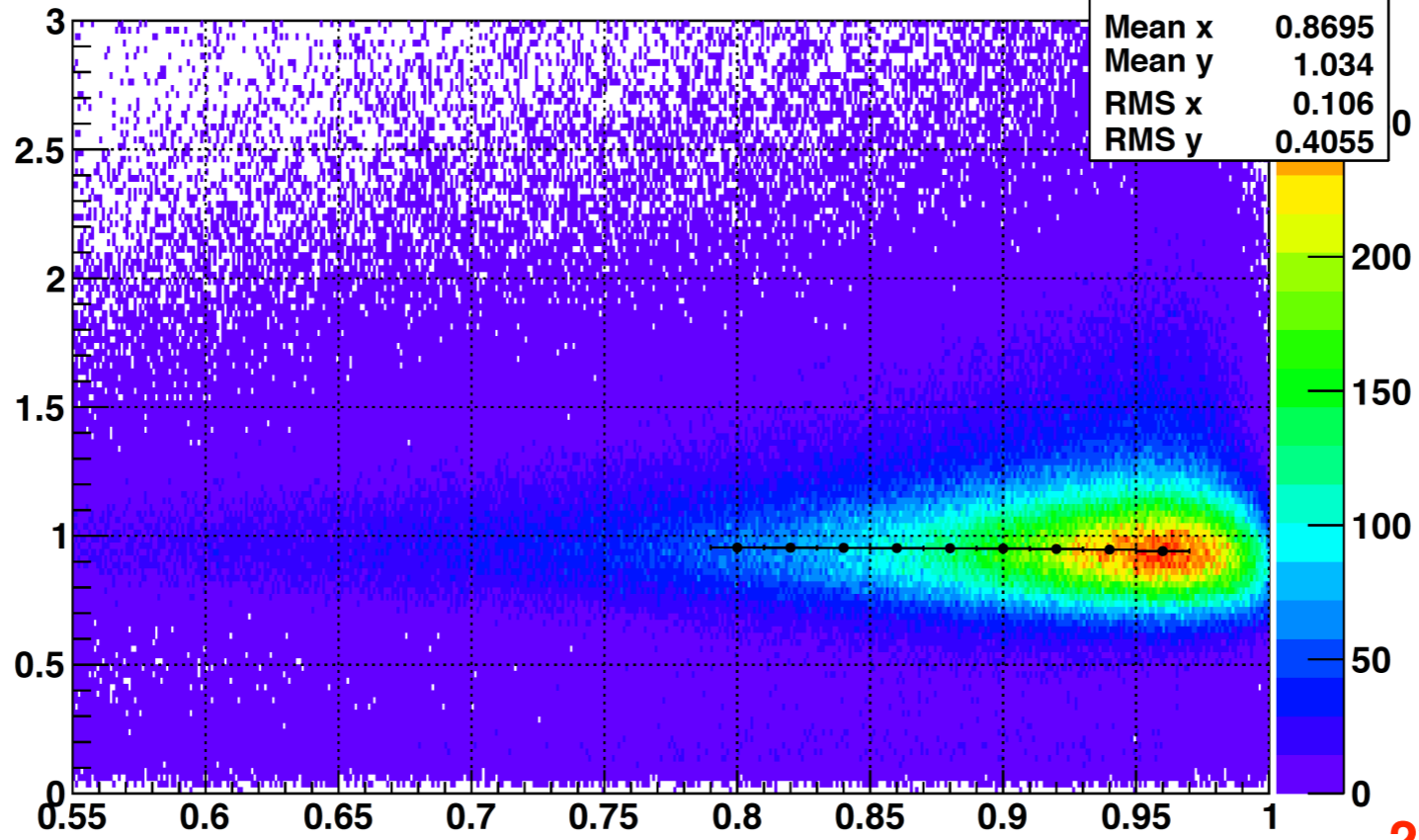
Wed Jul 29 11:08:00 2015

E/P

r24vsEoverP_BHT3

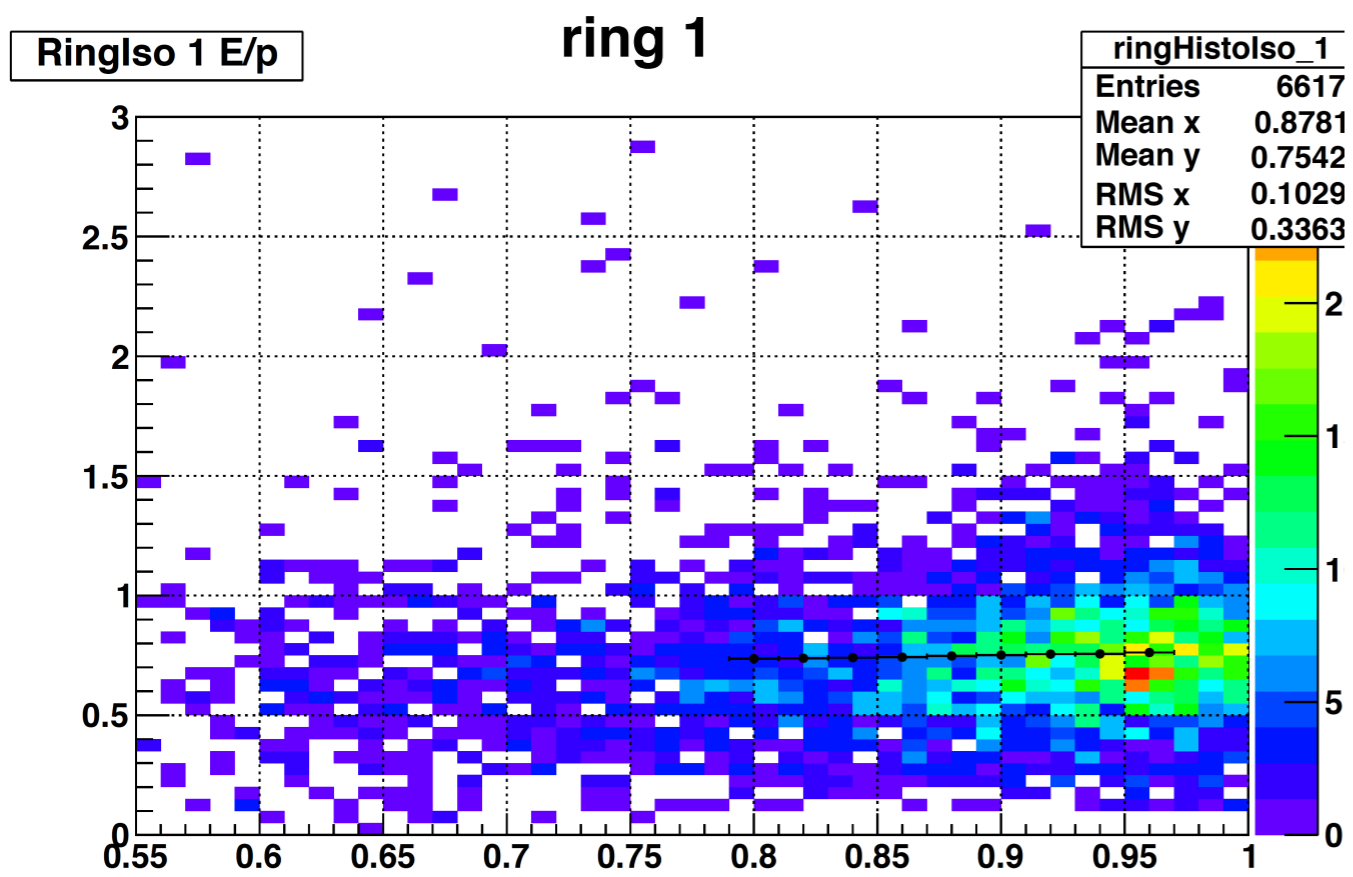
BHT3 - trigger

ratio24epBHT3	
Entries	909503
Mean x	0.8695
Mean y	1.034
RMS x	0.106
RMS y	0.4055

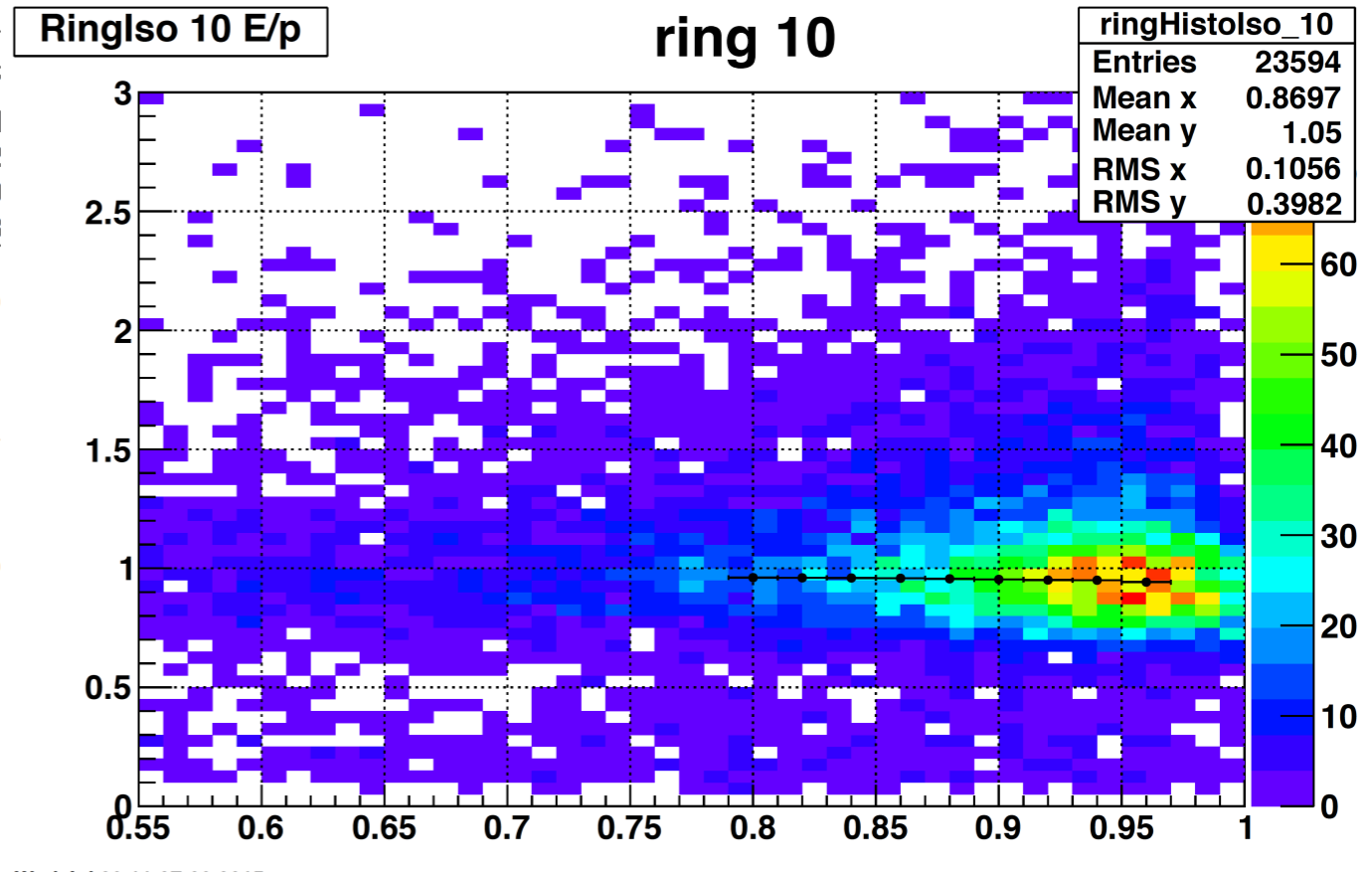


2x2 / 4x4

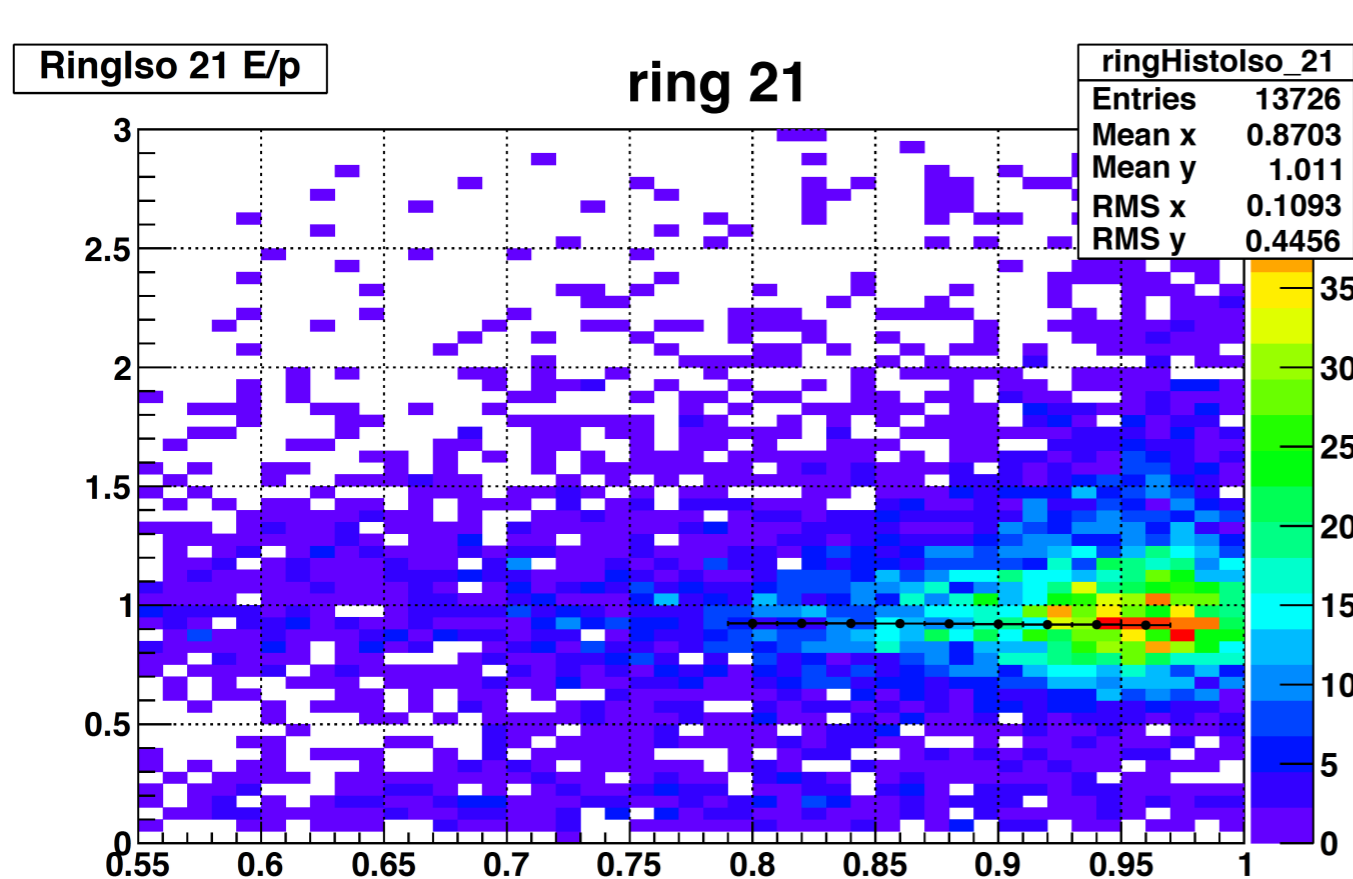
Wed Jul 29 11:10:03 2015



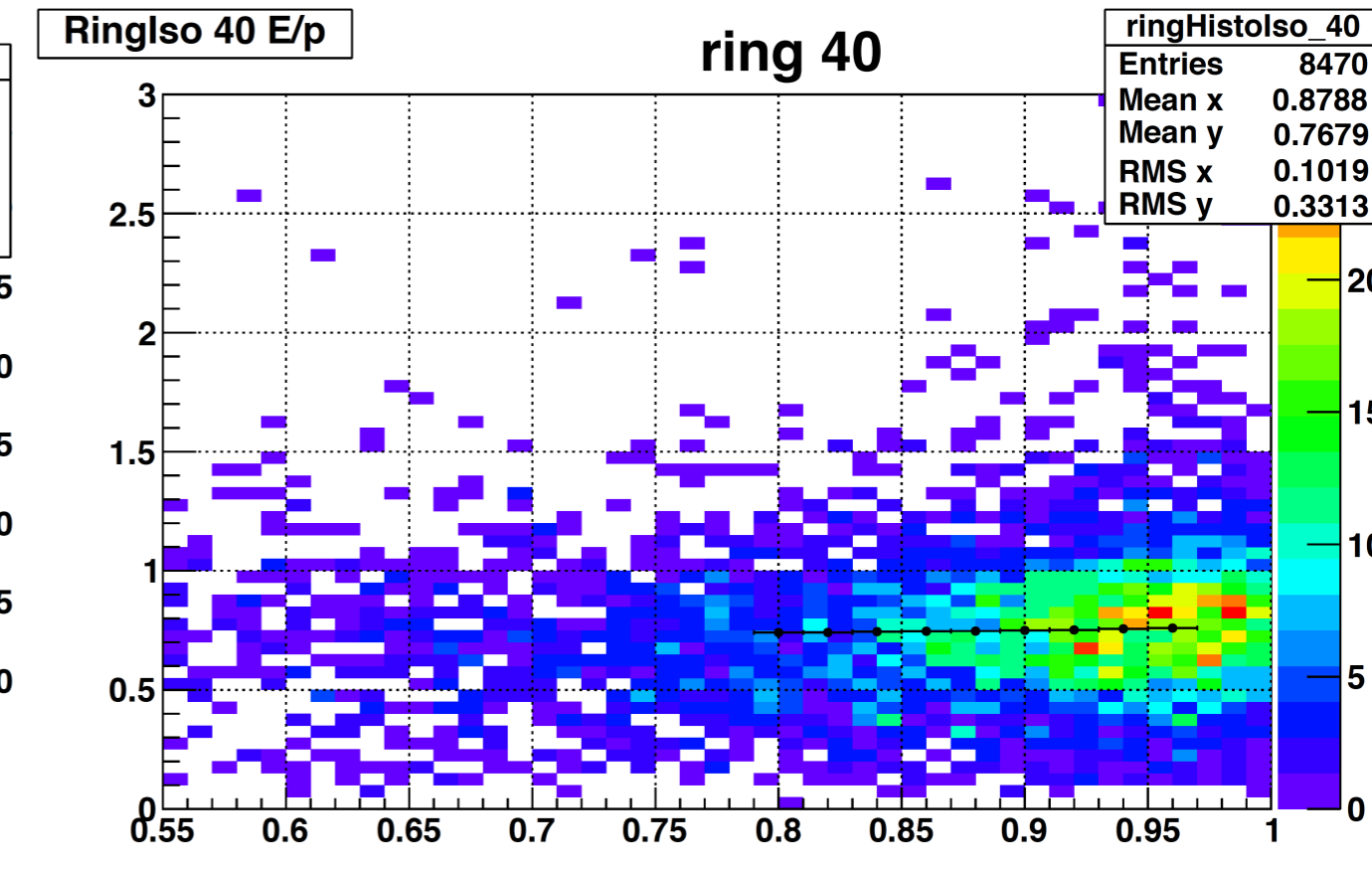
Wed Jul 29 11:34:08 2015



Wed Jul 29 11:37:09 2015

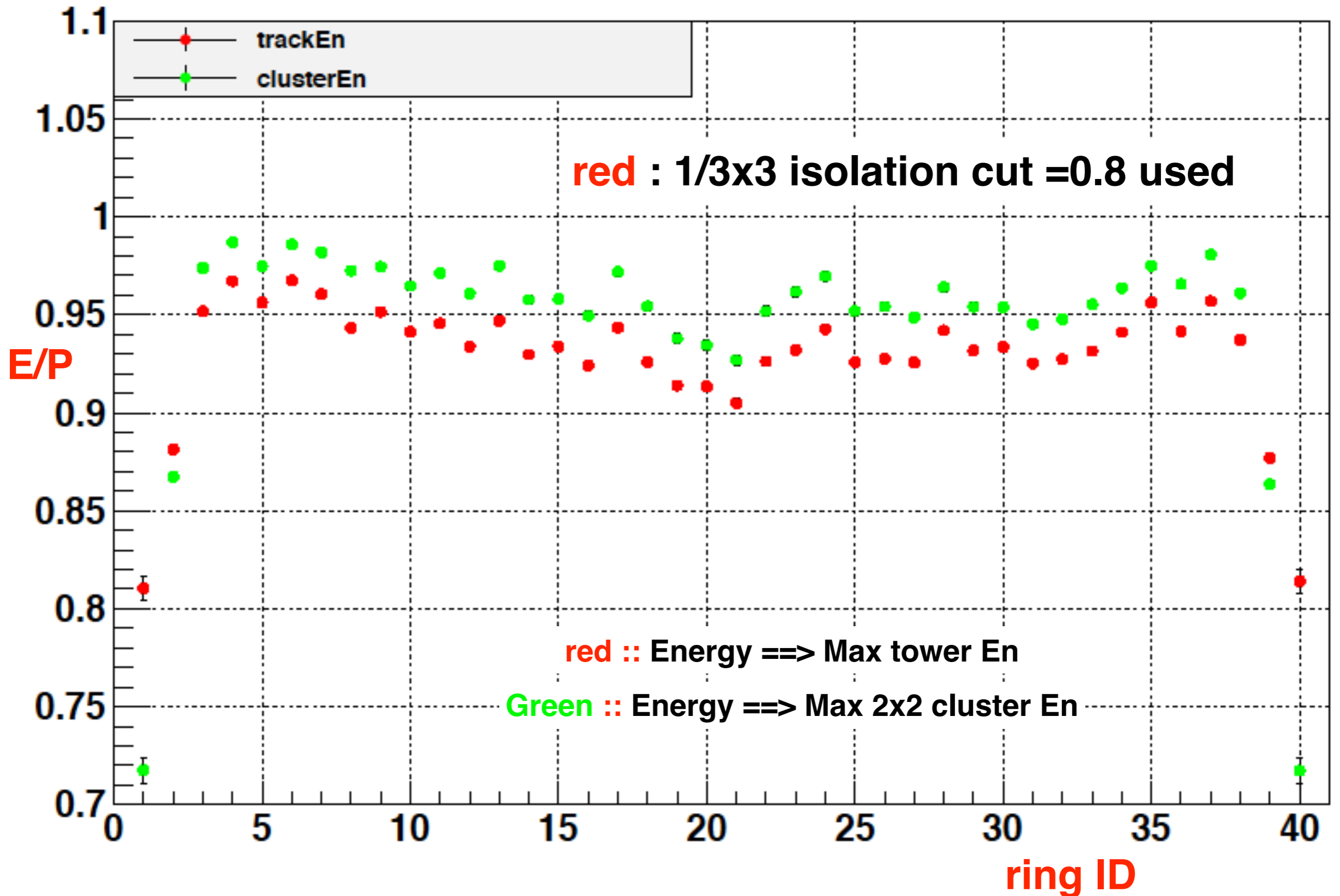


Wed Jul 29 11:38:06 2015

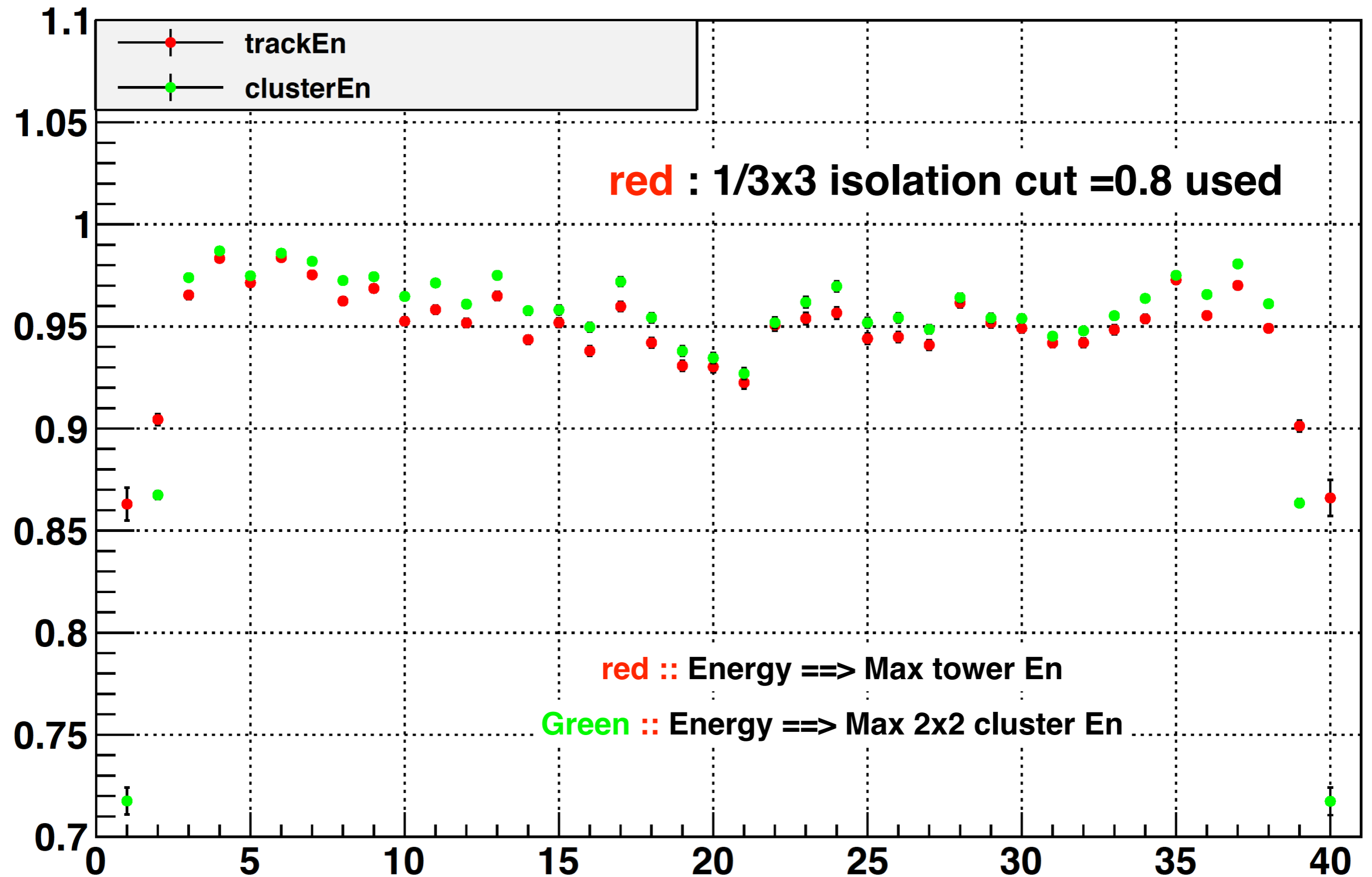


Wed Jul 29 11:40:02 2015

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



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



$$E_n = \sum_{i=1}^4 (\text{tower}_i_adc \cdot \text{rel_gain}_i)$$

$$E_n = \text{tower1_adc} \cdot \text{rel_gain}$$

$$\text{tower1_gain} = \text{tower1_rel.gain} / E/P_avg(\text{eta1})$$

$$\text{tower2_gain} = \text{tower1_rel.gain} / E/P_avg(\text{eta1})$$