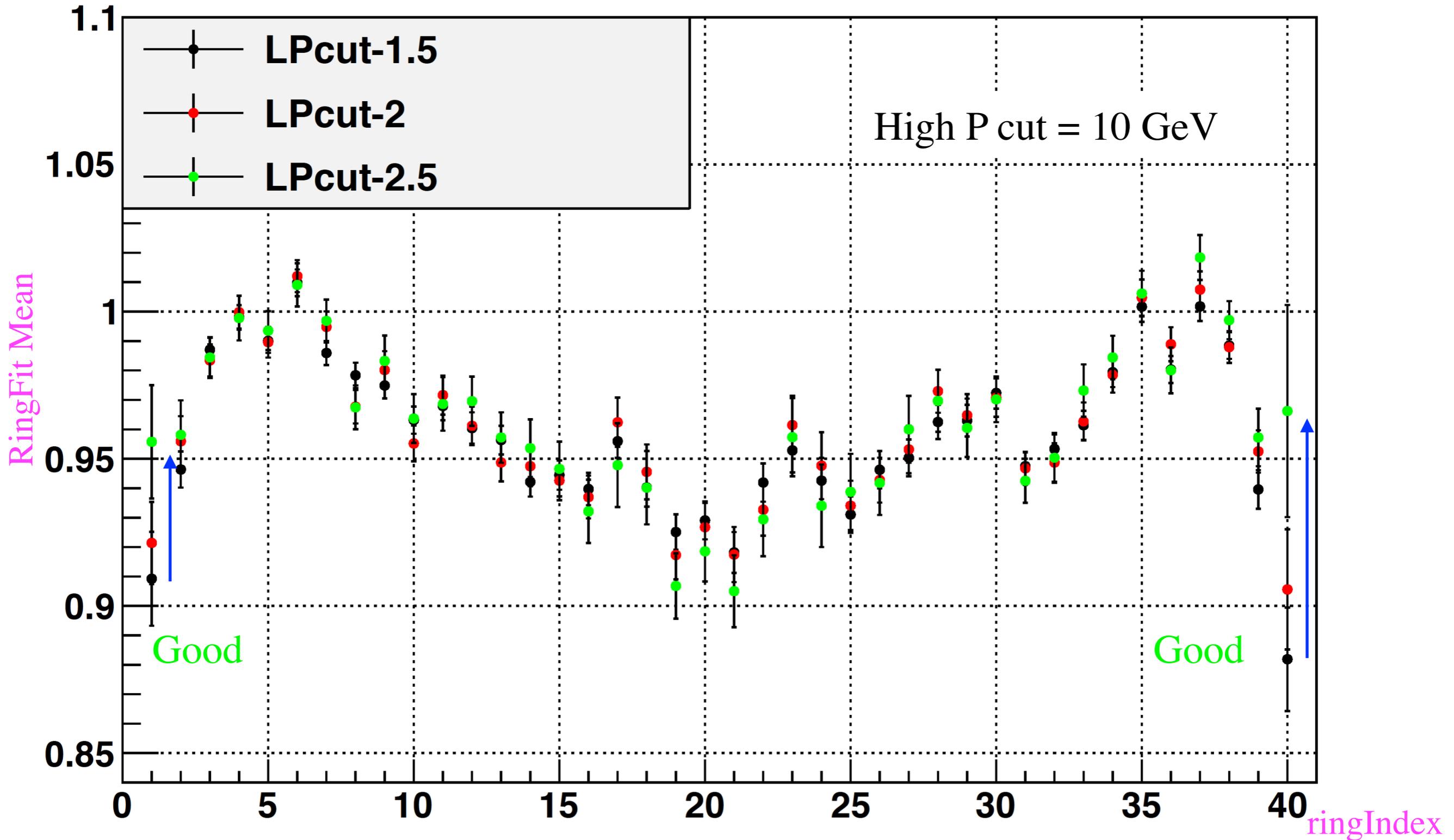


Effective track Cuts on trigger options

Electron Cuts

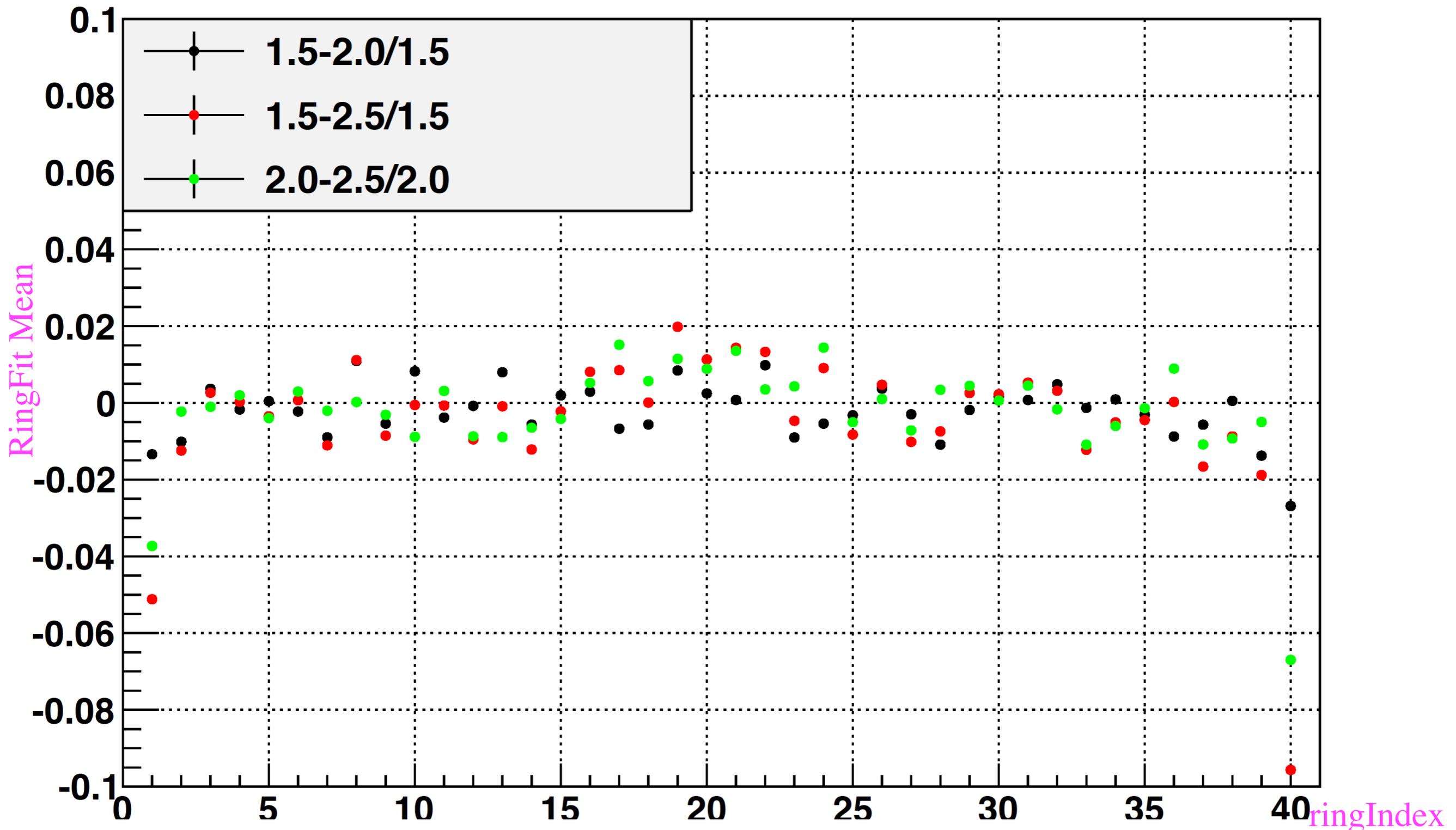
- Track P cuts
- Isolation cuts
- Other Track cuts ($n\text{SigmaPio}$, $n\text{SigmaElectrons}$)

JP2 Low P cut



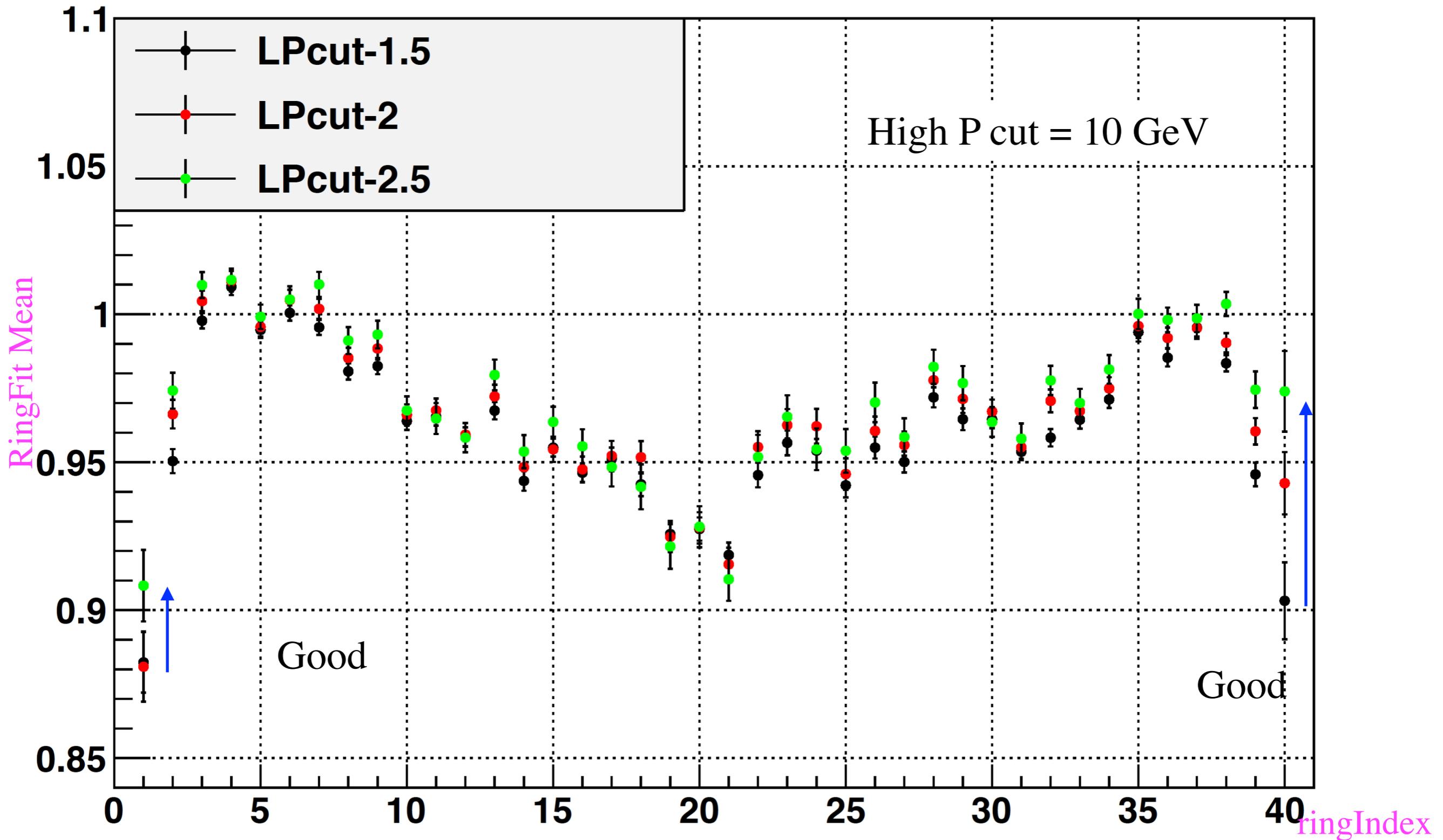
LP cut =2.5 is good for ring Indexes 1,2,39,40 even with the uncertainty .

Differences



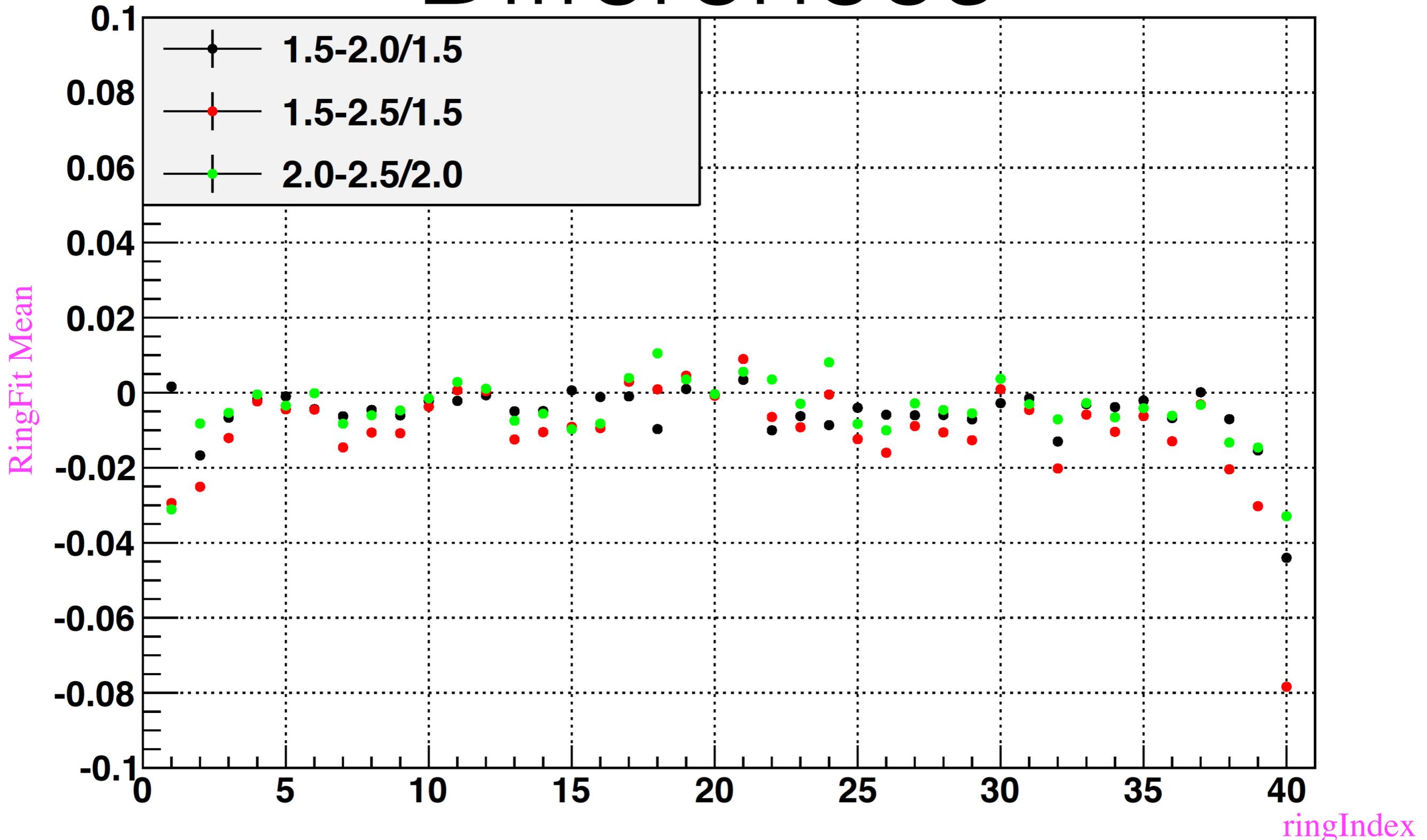
Inner rings consistent within 1-2% , but outermost rings shows significant difference.

BHT3 Low P cut



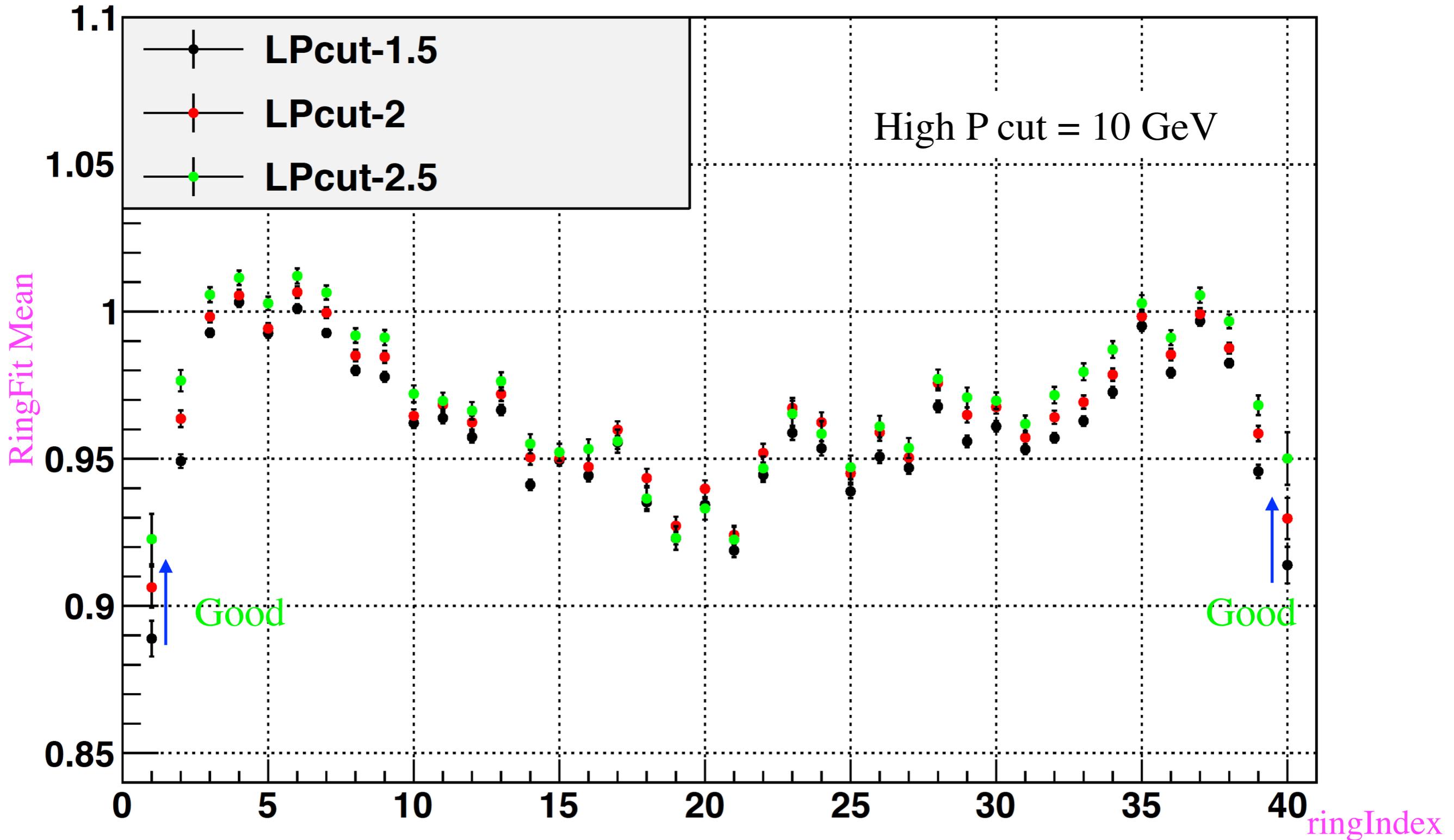
LP cut =2.5 is good for ring Indexes 1,2,39,40 even waiting the uncertainty.

Differences

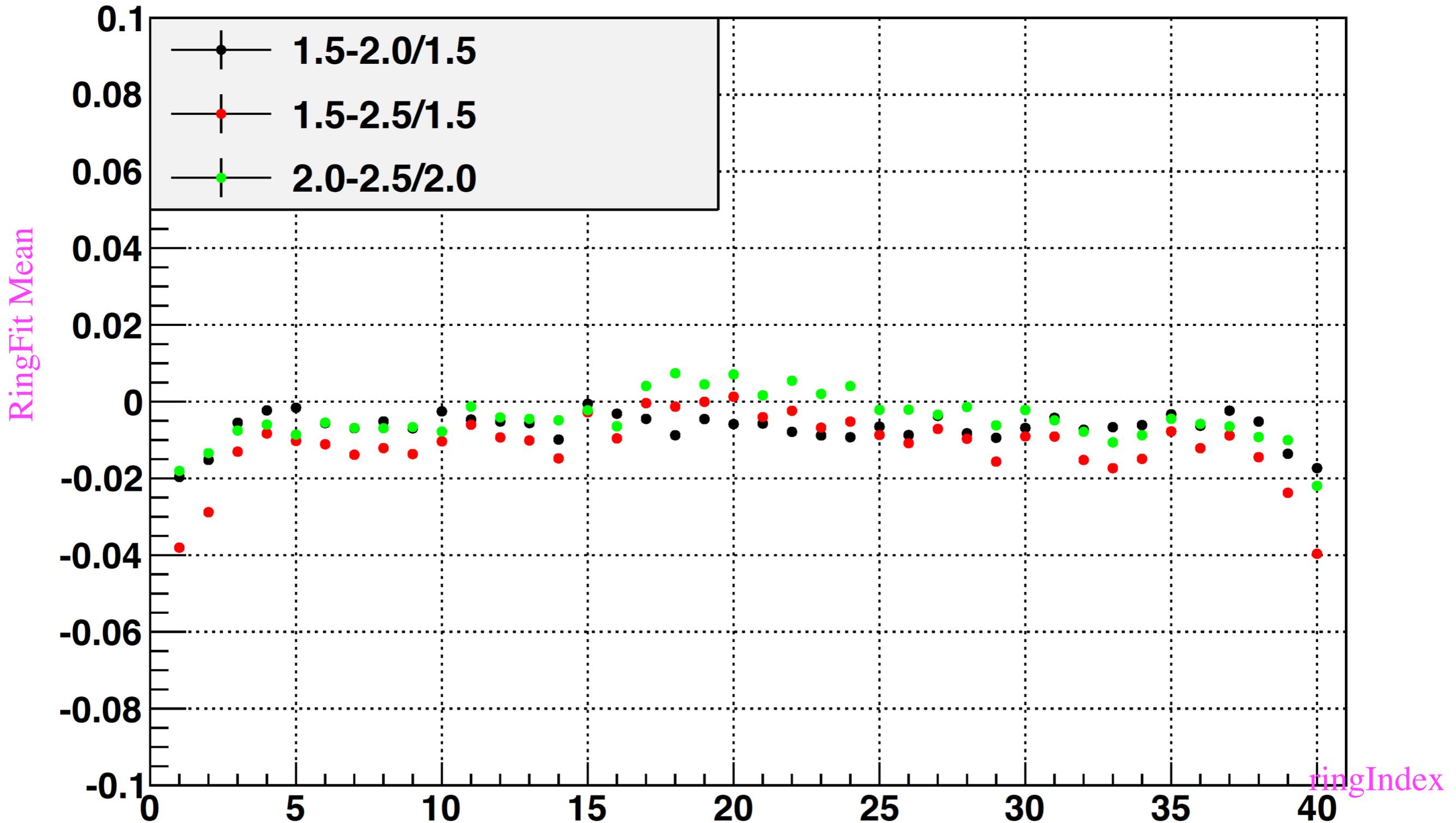


Inner rings consistent within 1-2% , but outermost rings shows significant difference.

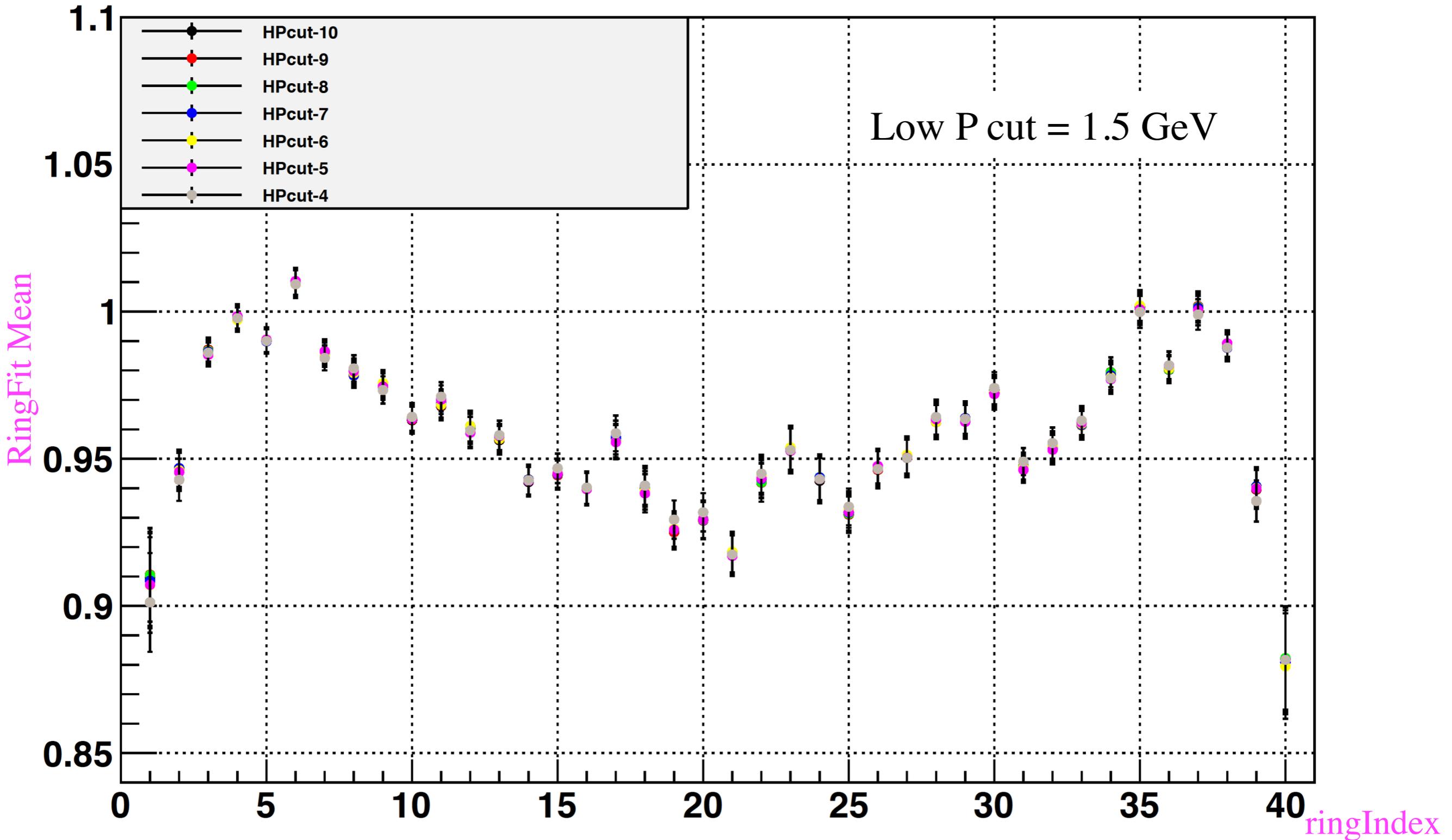
Unbiased Low P cut



Differences

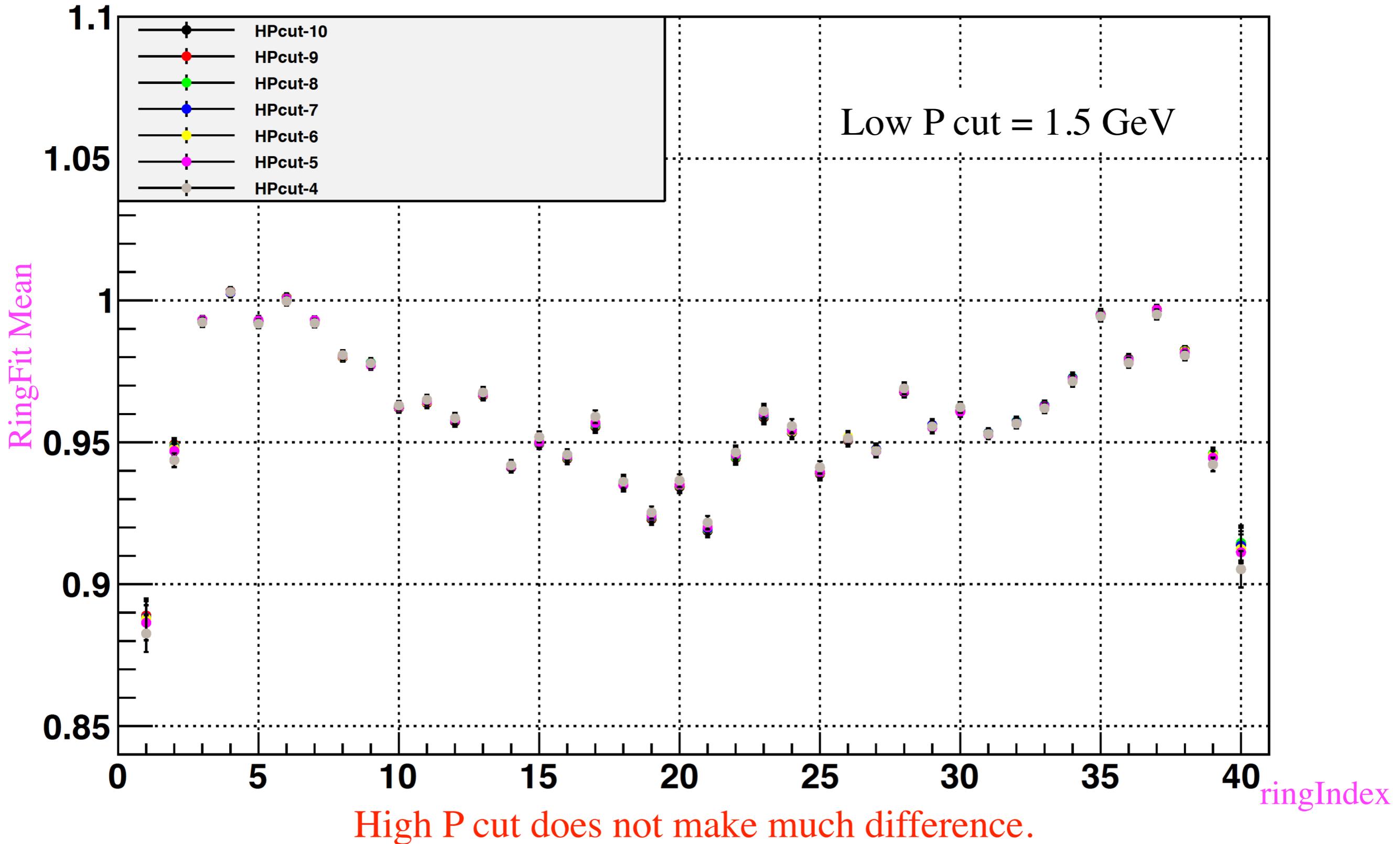


JP2 High P cut

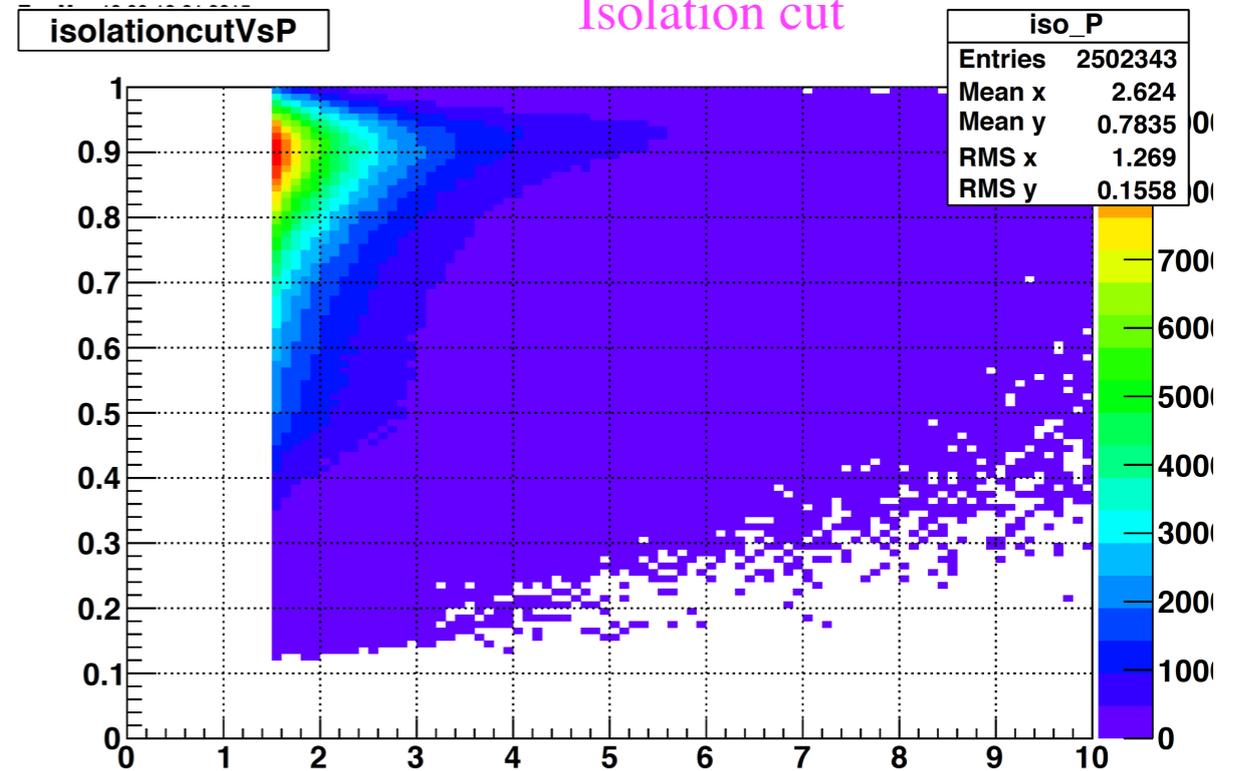
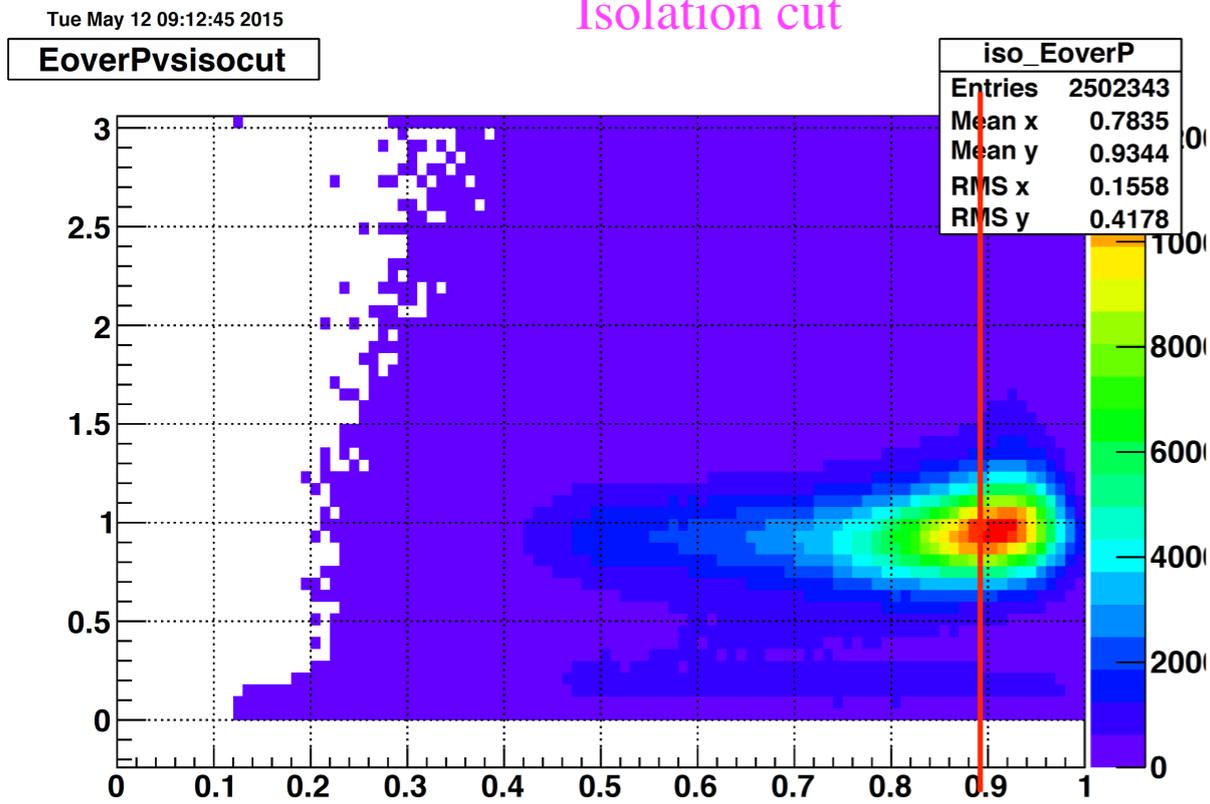
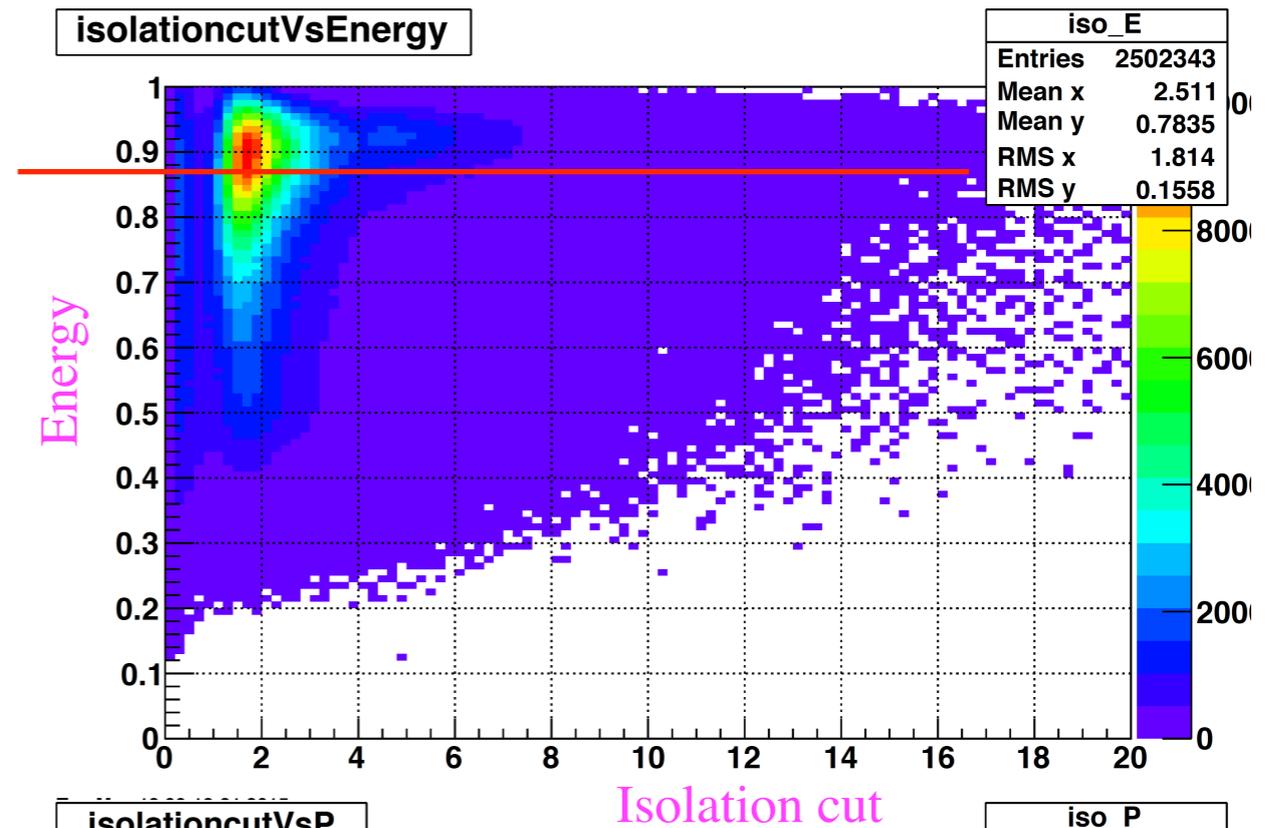
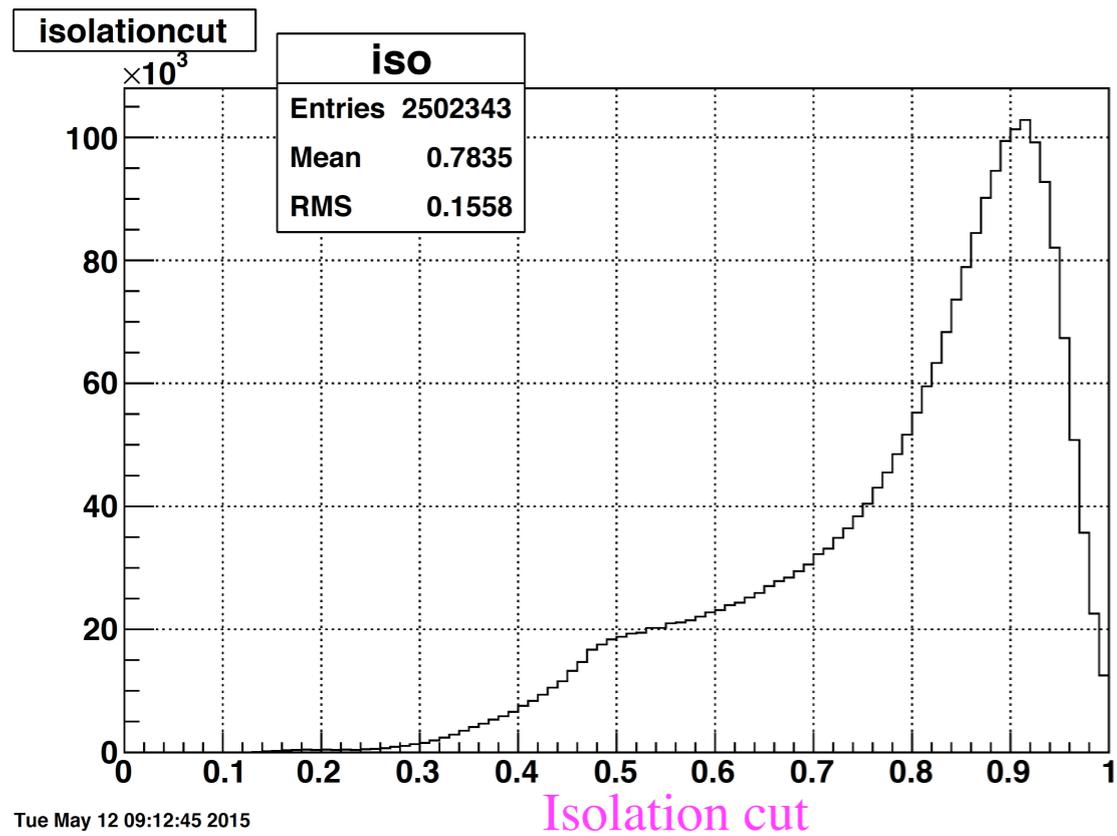


High P cut does not make much difference.

Unbiased High P cut



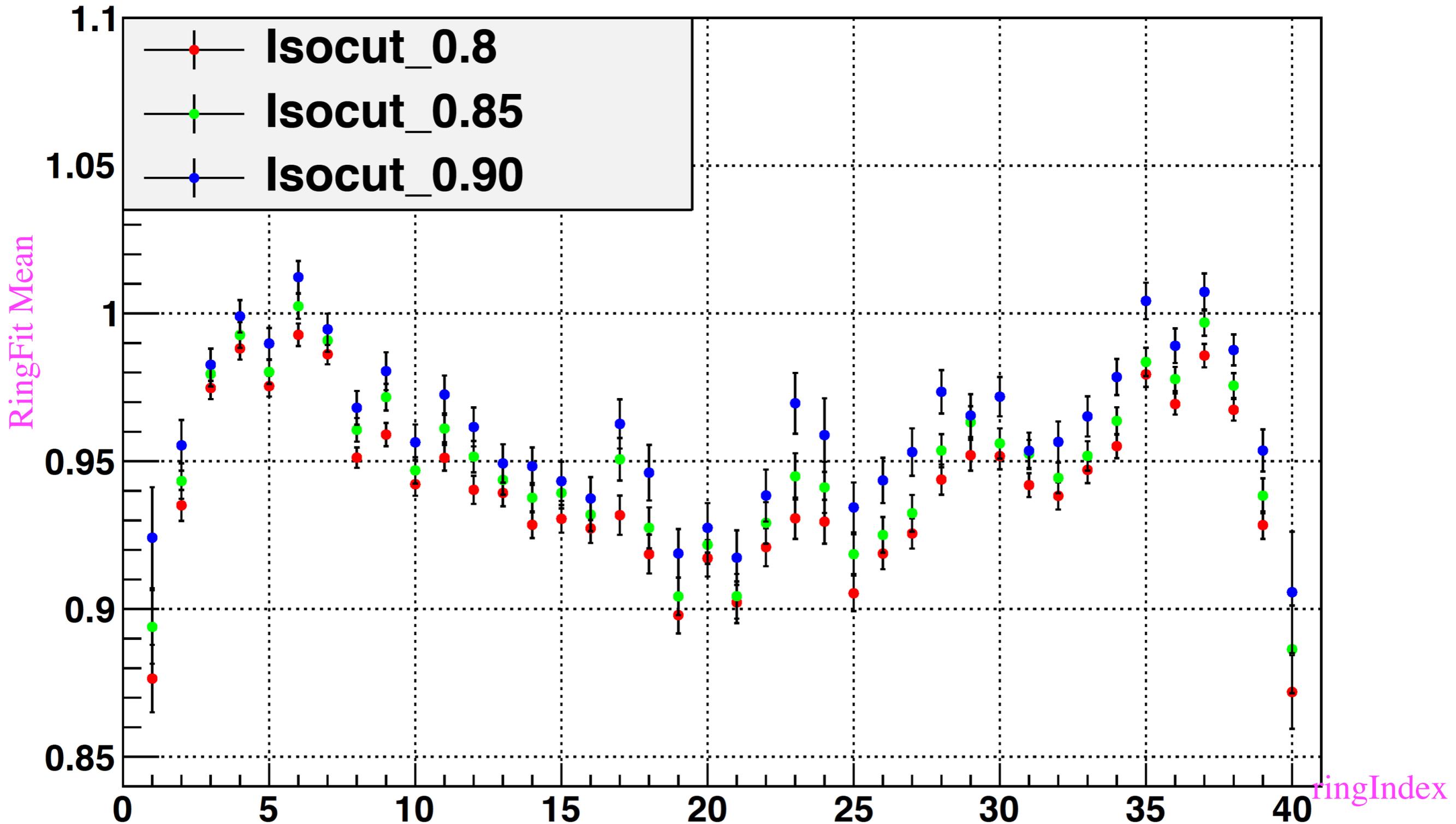
Isolation Cut : track E / E_{3x3} clusterSum



Tue May 12 09:15:00 2015

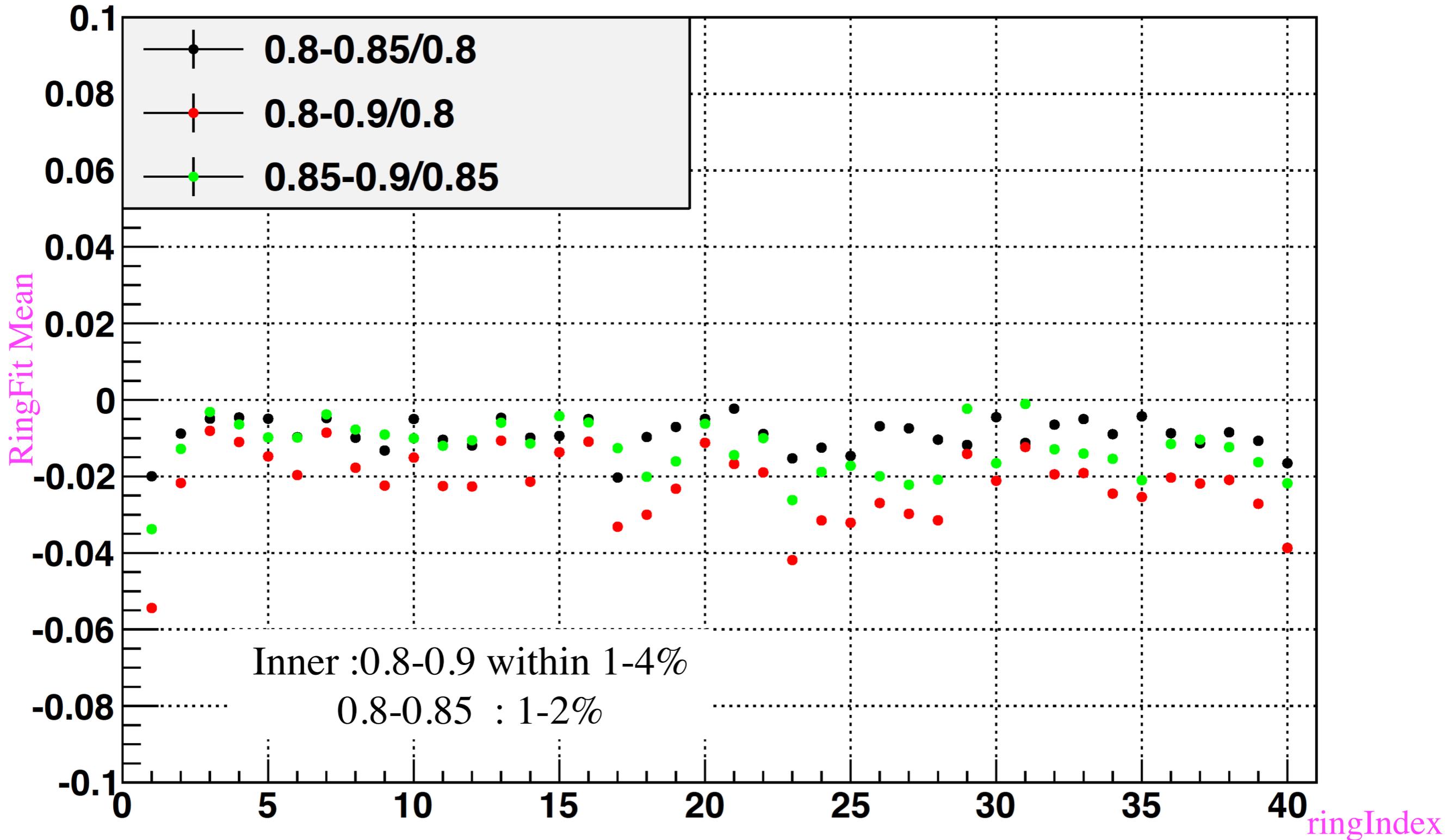
Tue May 12 09:13:51 2015

JP2 Isolation cut



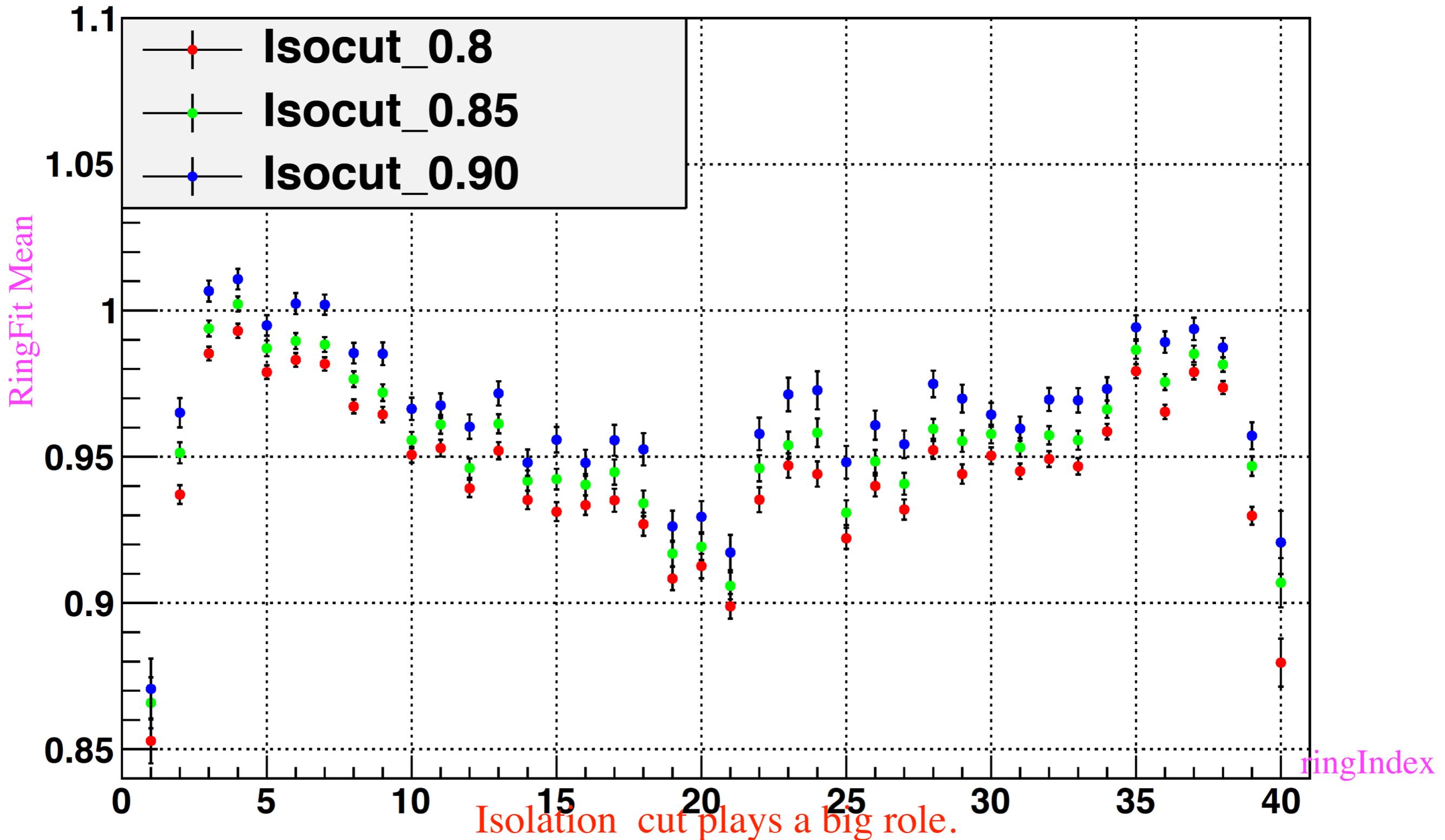
Isolation cut plays a big role.

Differences

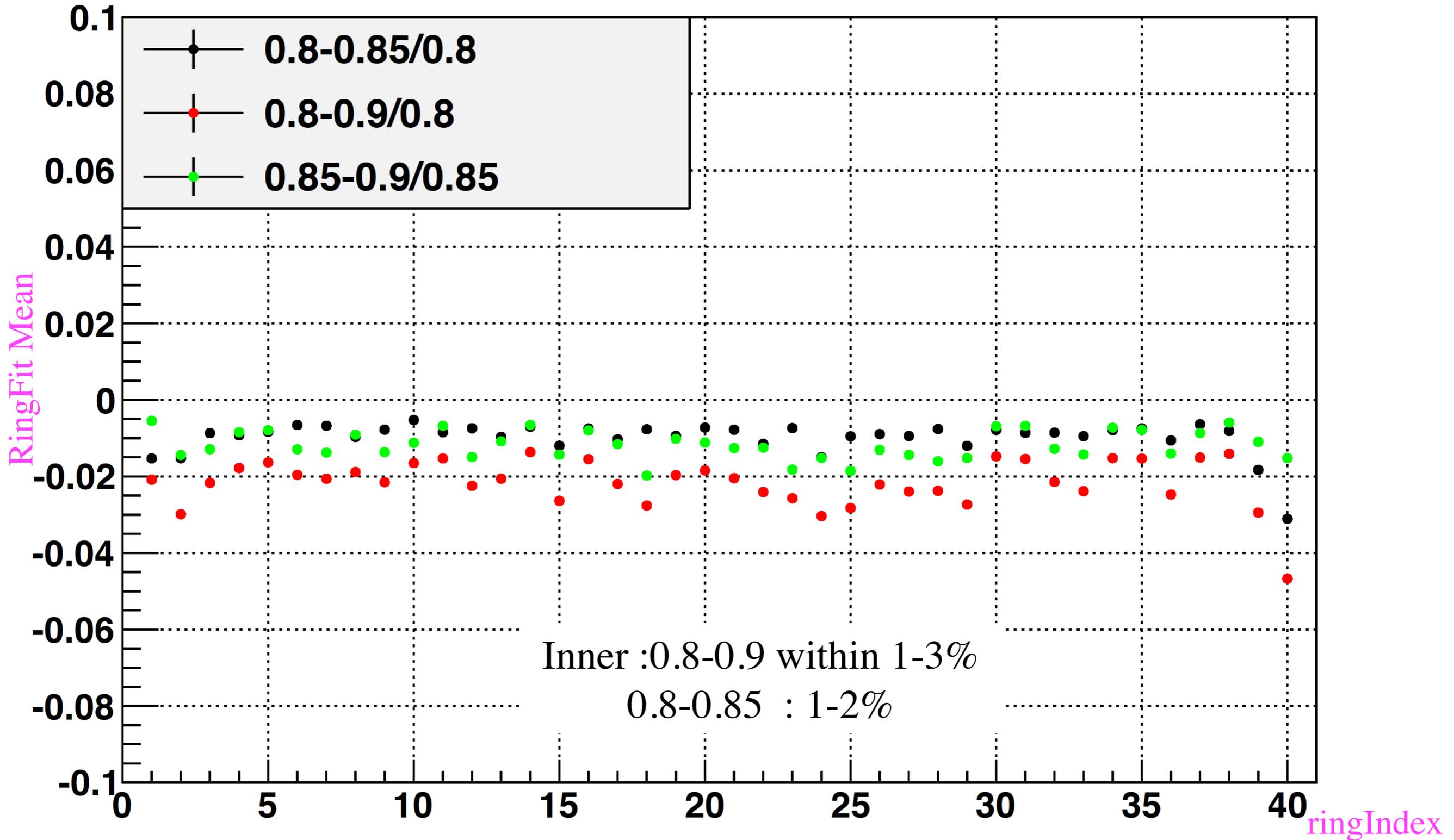


Outermost rings shows significant differences.

BHT3 Isolation cut

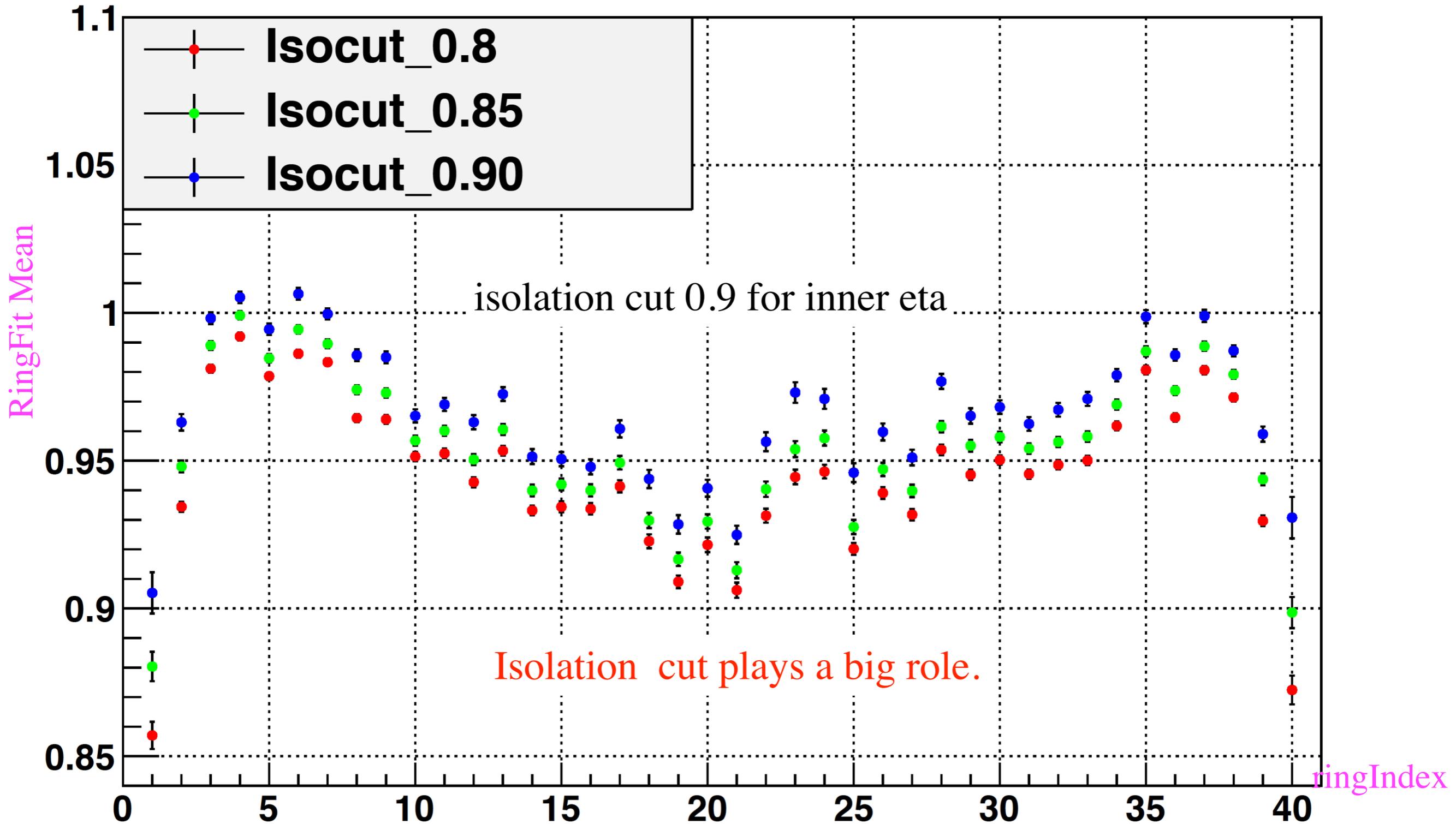


Differences

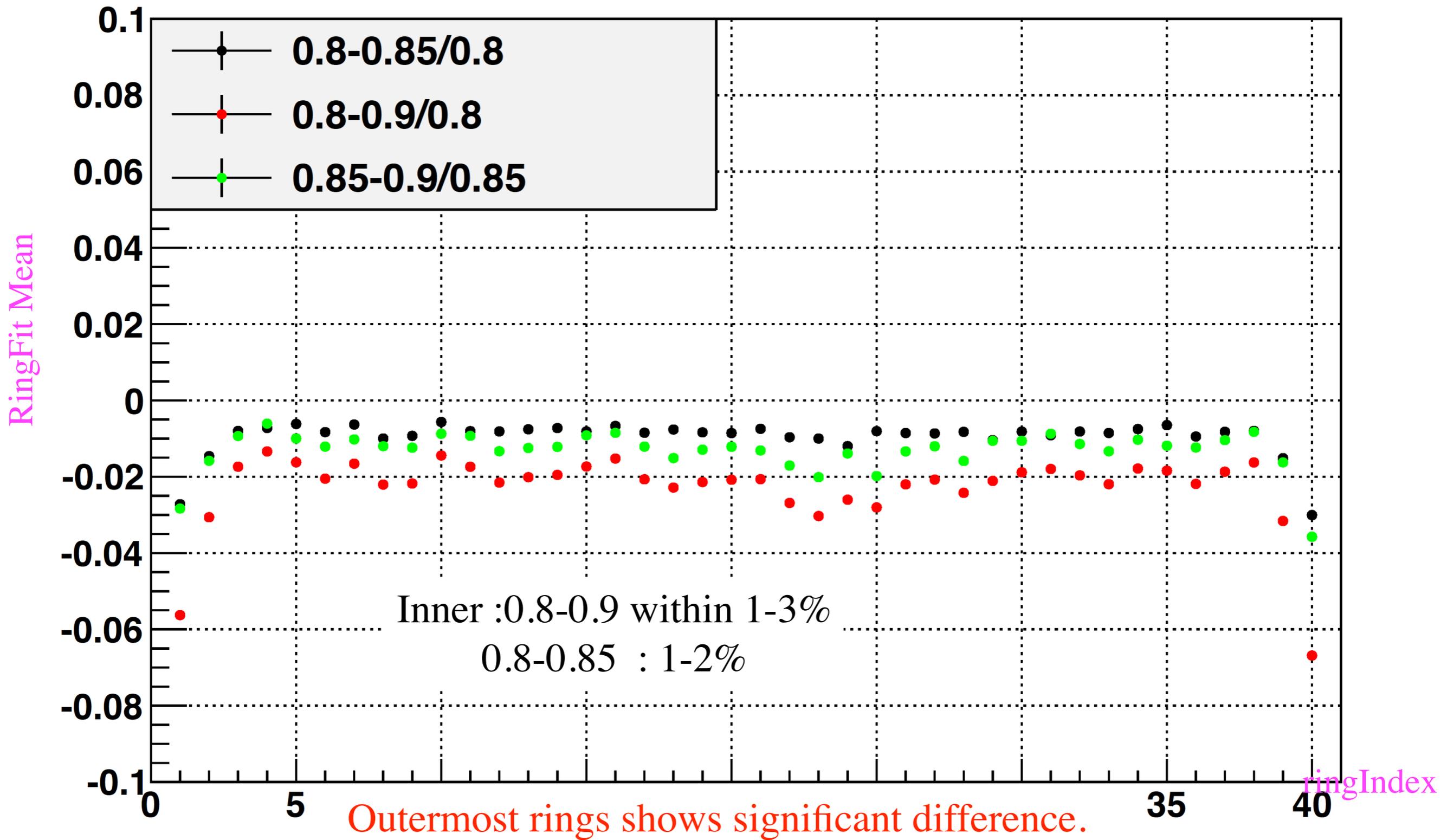


Outermost rings shows significant differences.

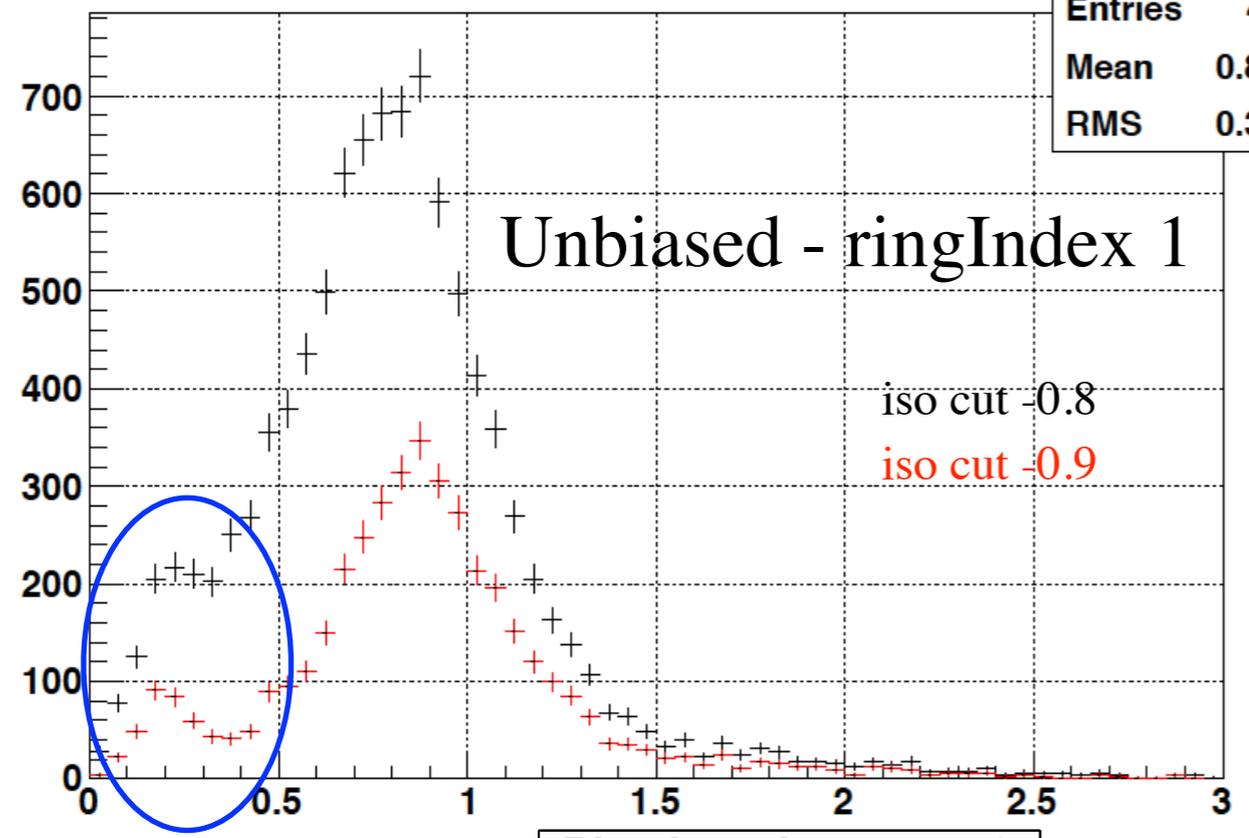
Unbiased Isolation cut



Differences

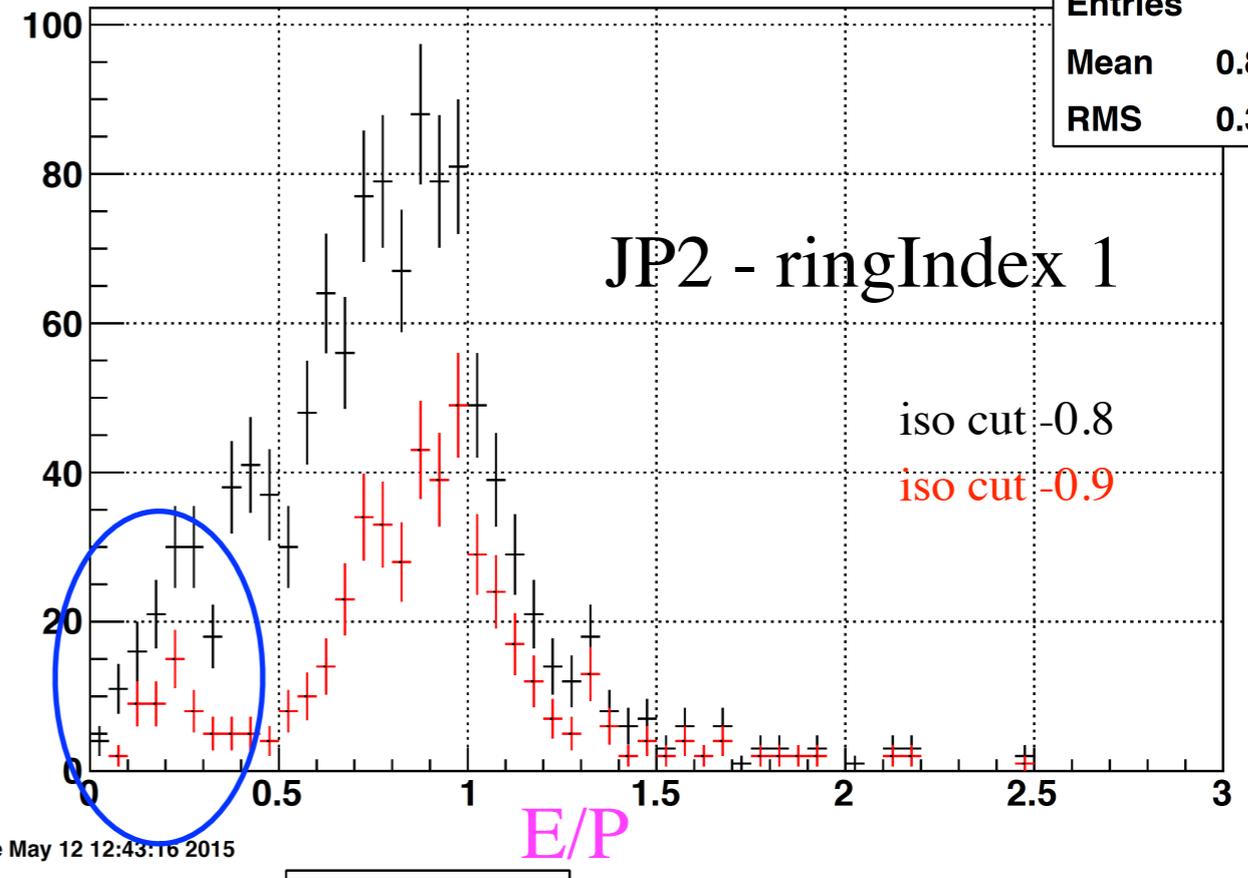


Ring Iso 1 Isotrg1 trg1



ringHistolso_1_Isotrg3_trg1	
Entries	413
Mean	0.885
RMS	0.385

Ring Iso 1 Isotrg1 trg2

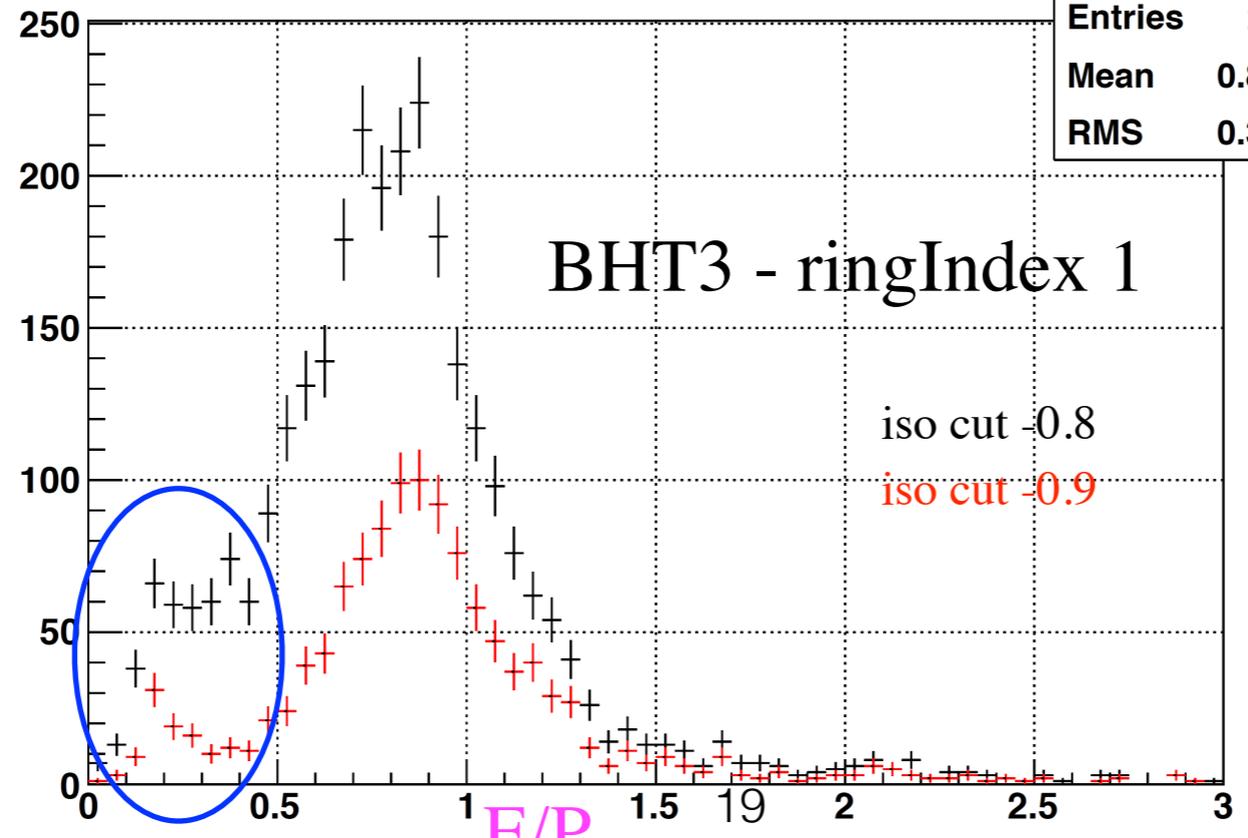


ringHistolso_1_Isotrg3_trg2	
Entries	487
Mean	0.8799
RMS	0.3639

Tue May 12 12:41:40 2015

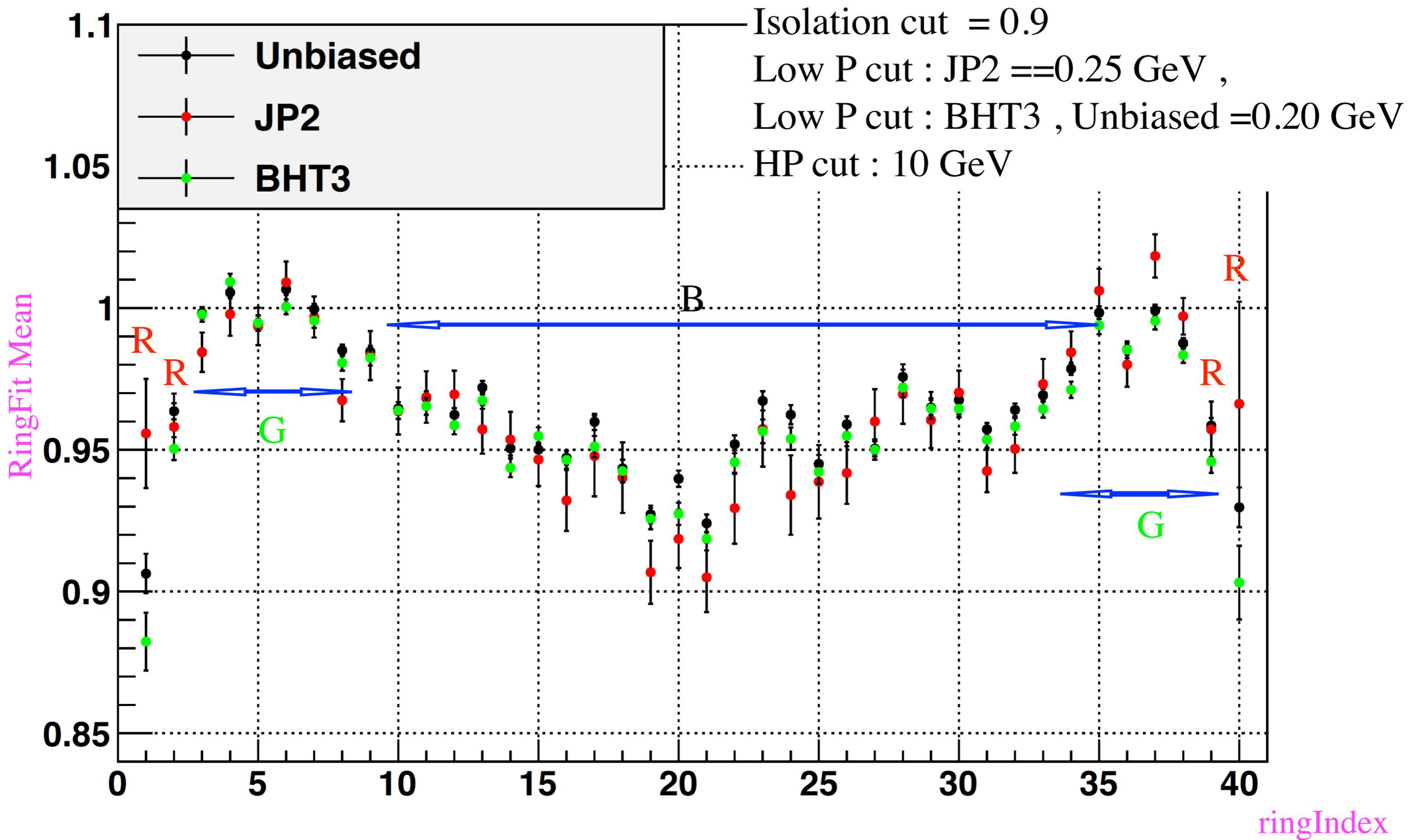
Tue May 12 12:43:16 2015

Ring Iso 1 Isotrg1 trg3

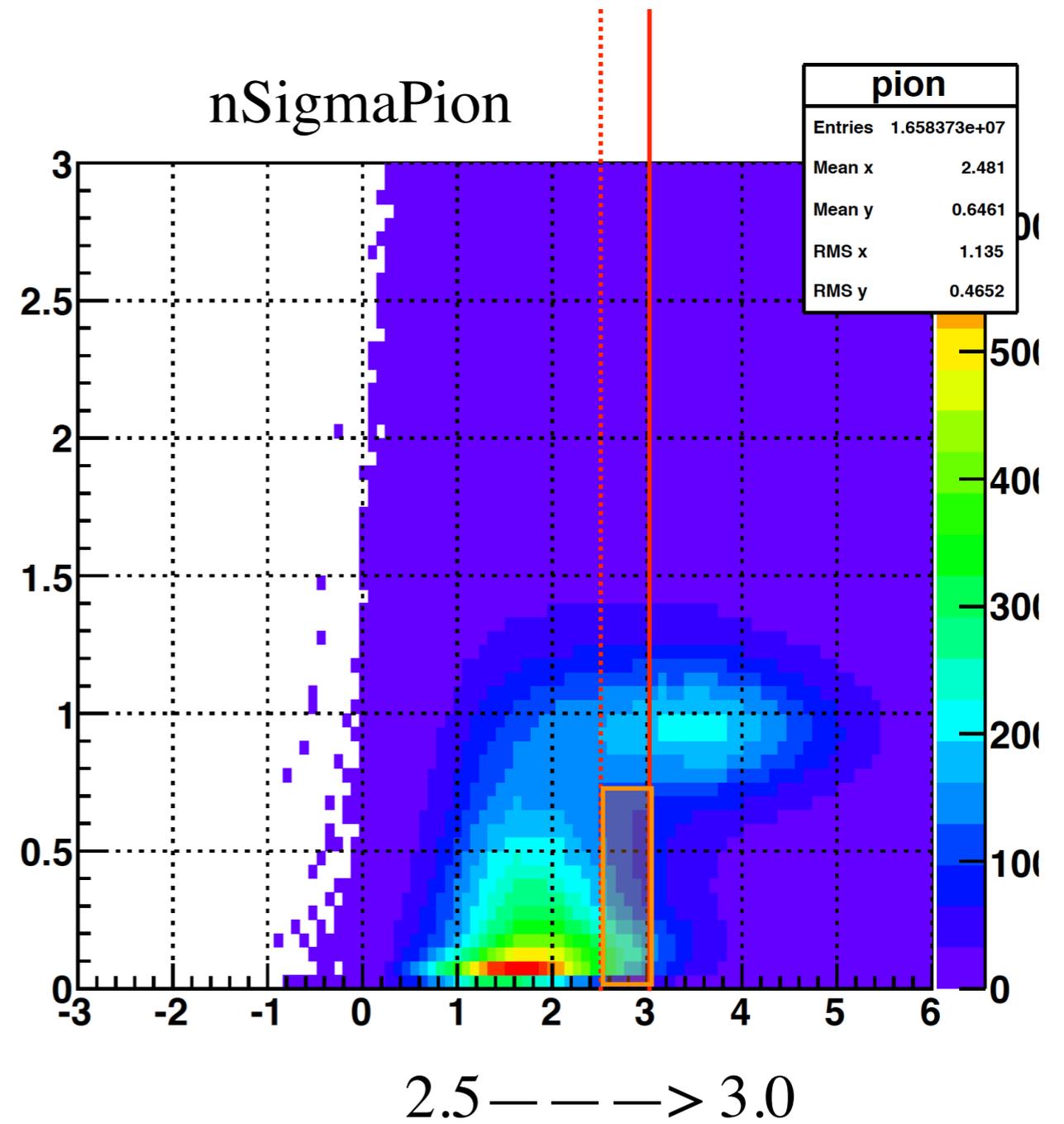
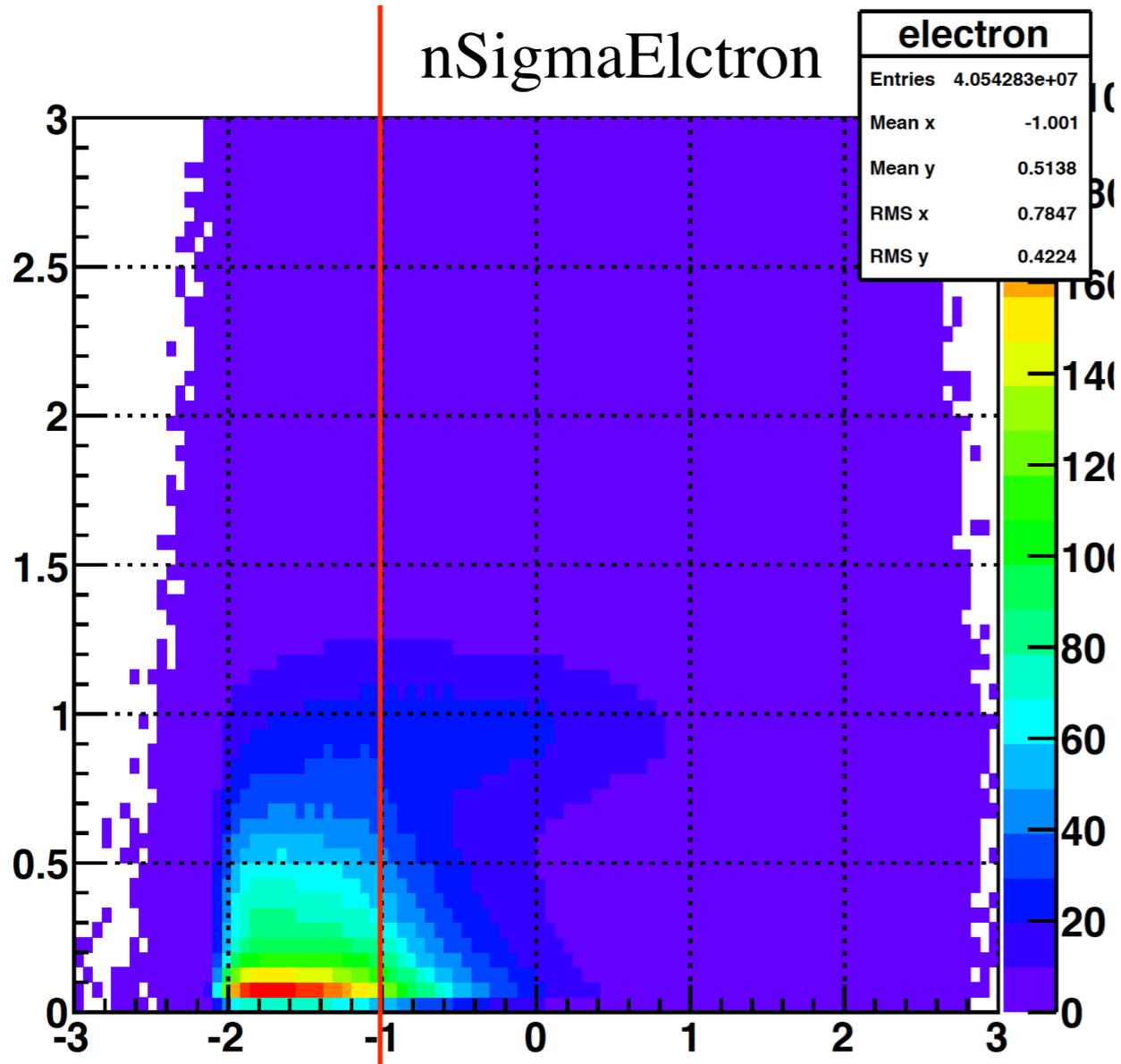


ringHistolso_1_Isotrg1_trg3	
Entries	2914
Mean	0.8079
RMS	0.3899

Tue May 12 12:44:42 2015



Track Cuts

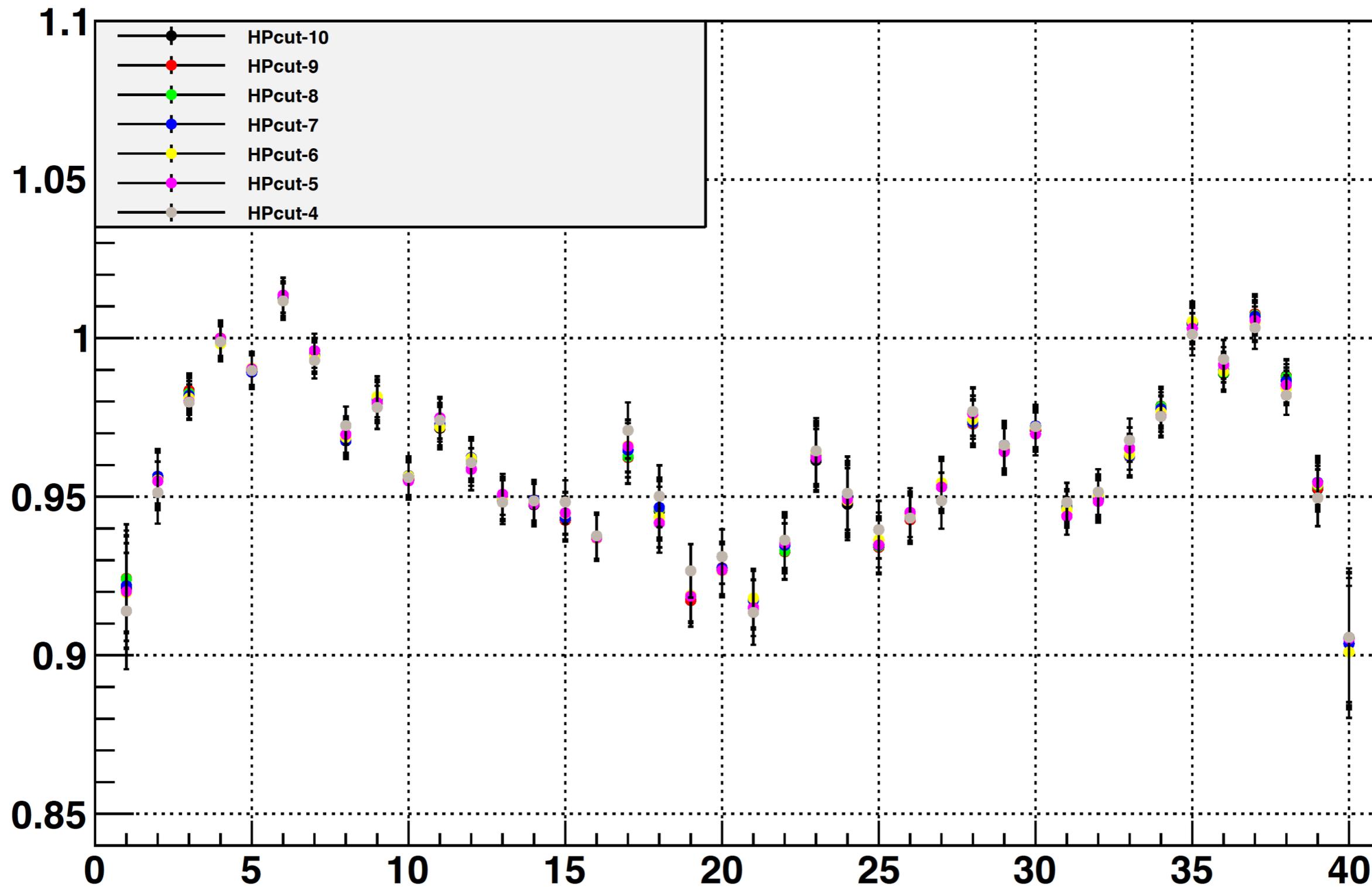


Summary

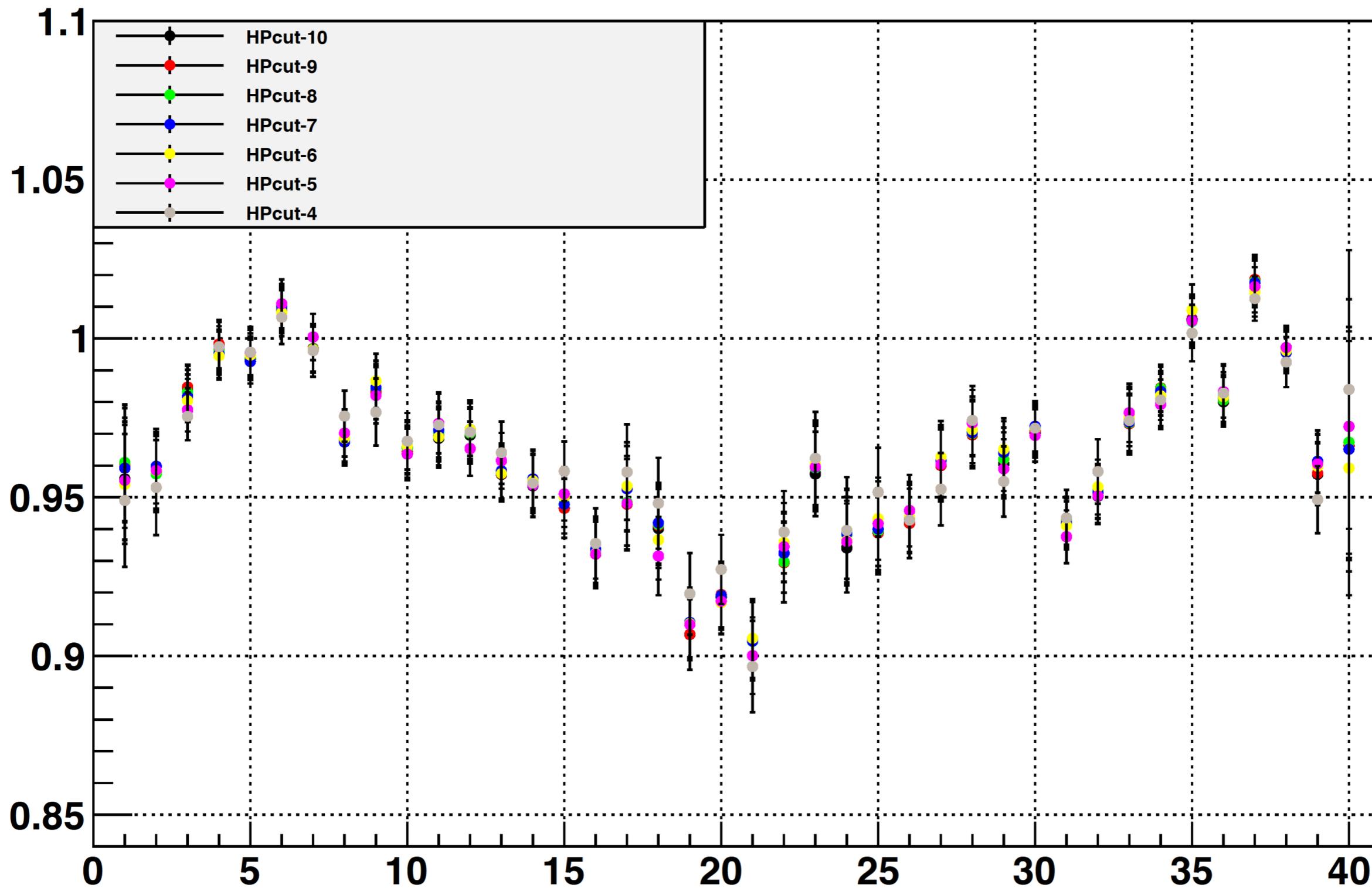
- Low Pt cut significantly effect outermost rings due to backgrounds
- High Pt Cuts shows negligible differences.
- Isolation Cut plays a big role thorough out the whole Eta region.

Backup

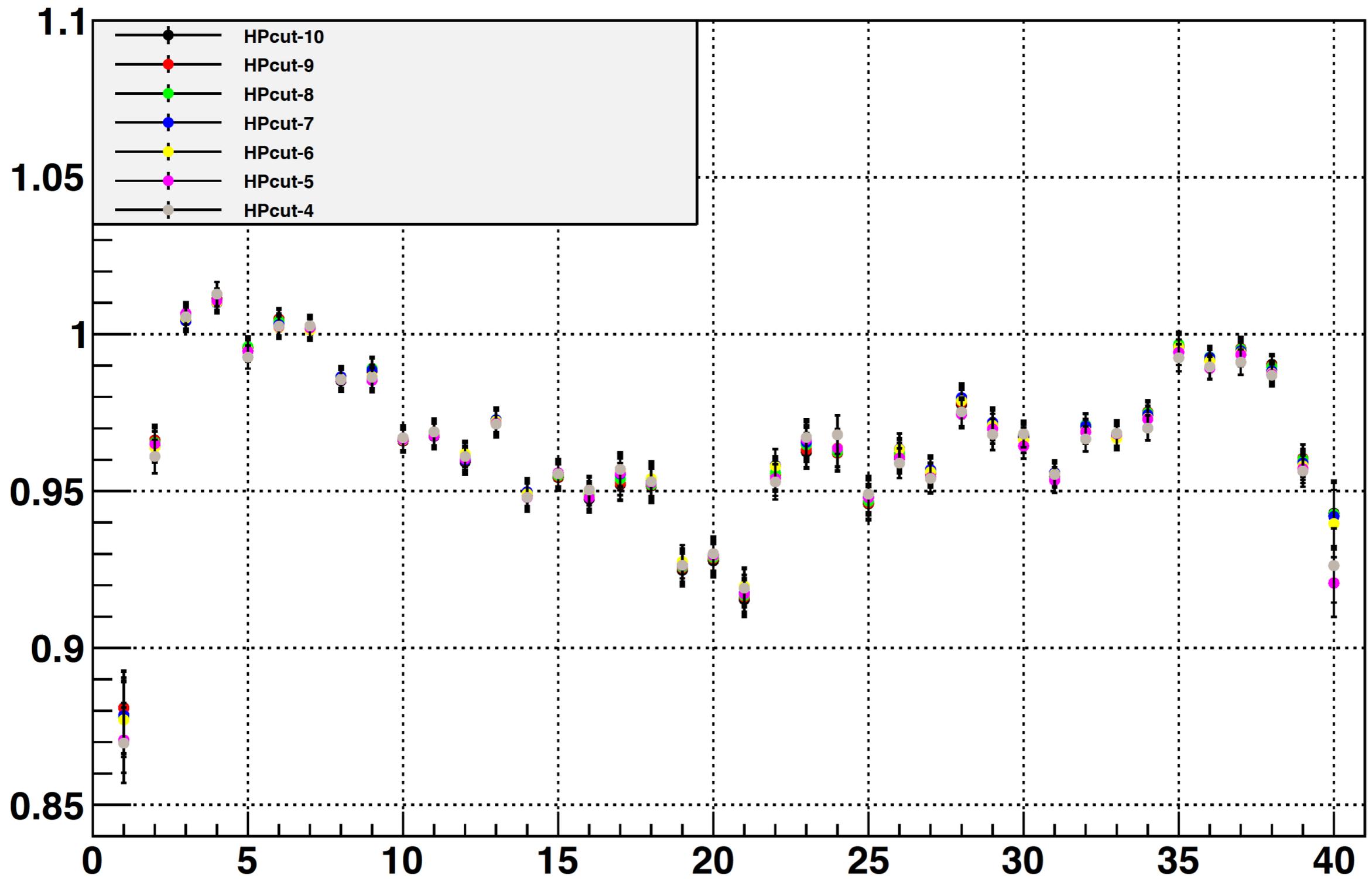
JP2 trigger LP cut =2.0



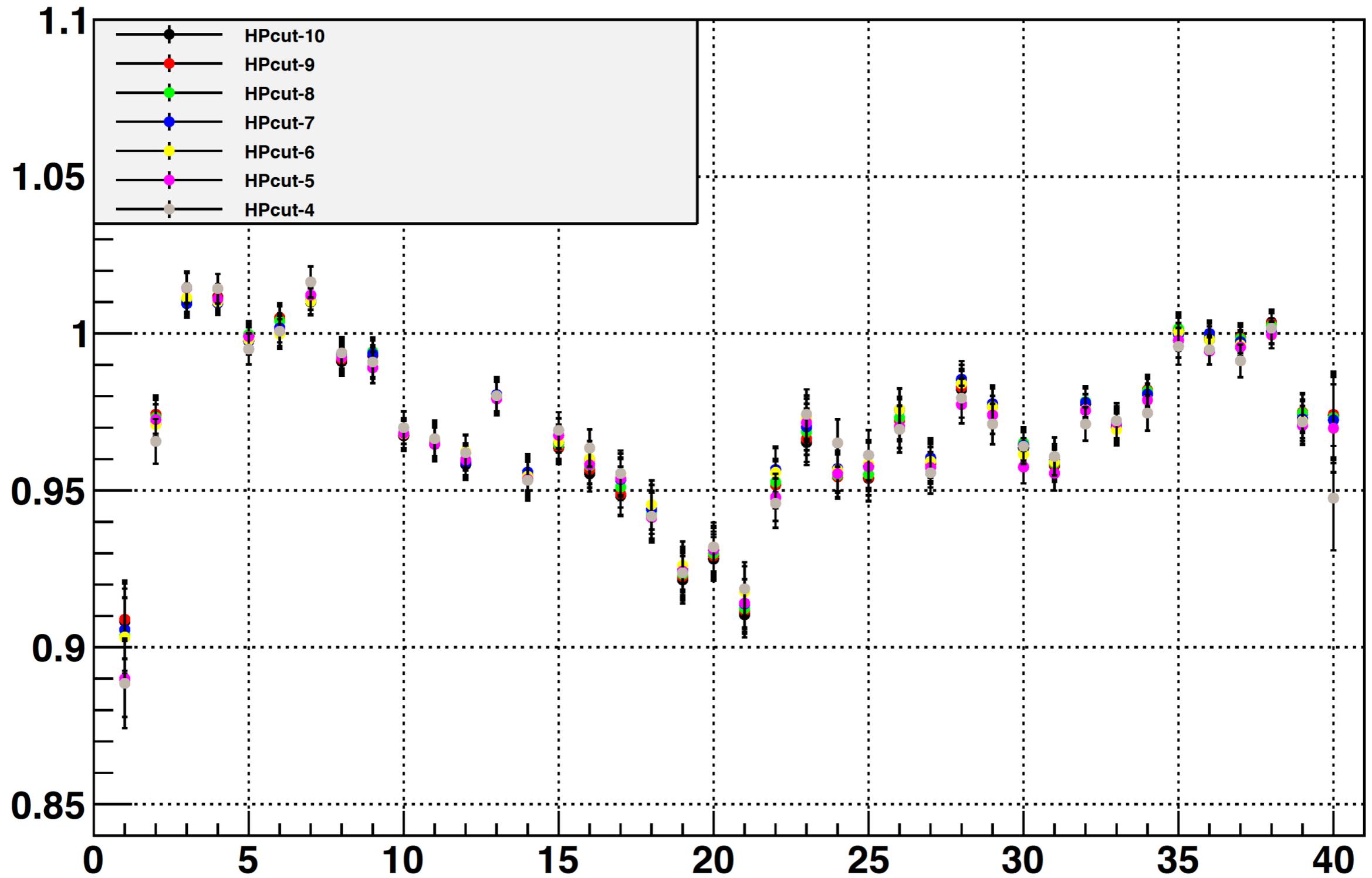
LP=2.5 JP2



LP=2.0 BHT3



LP=2.5 BHT3



trackTDR

