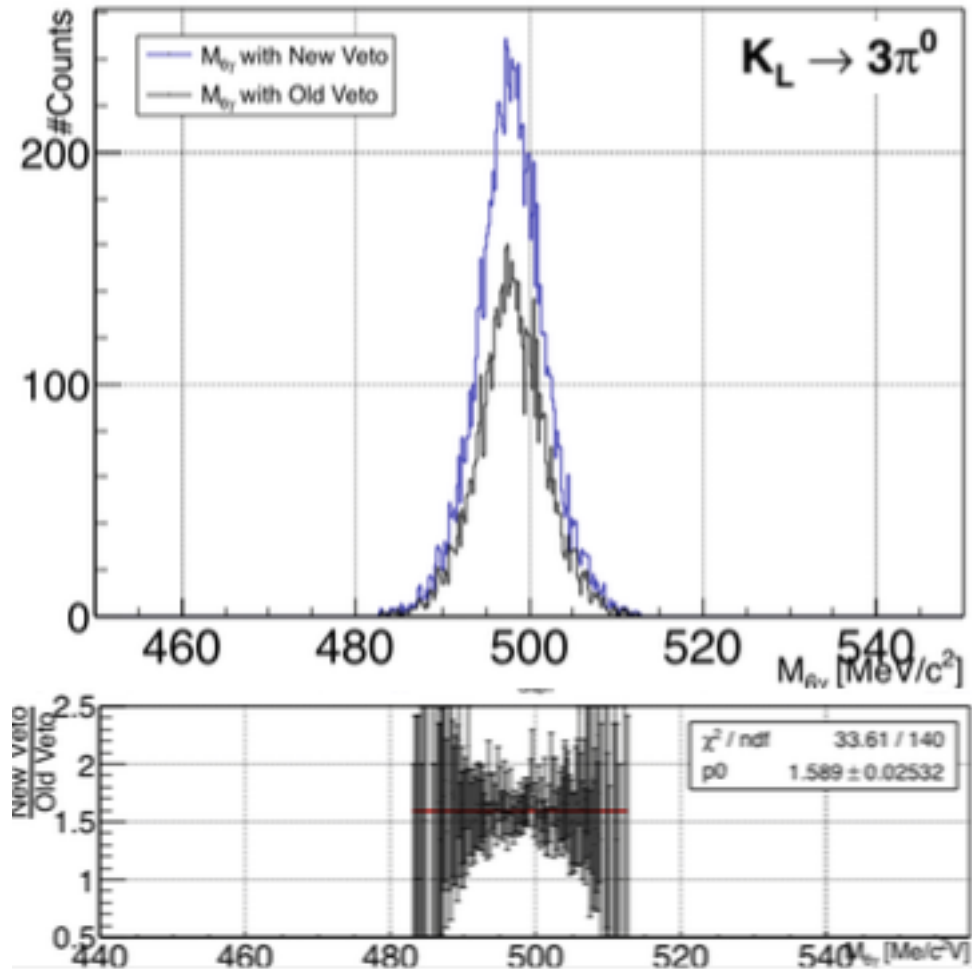
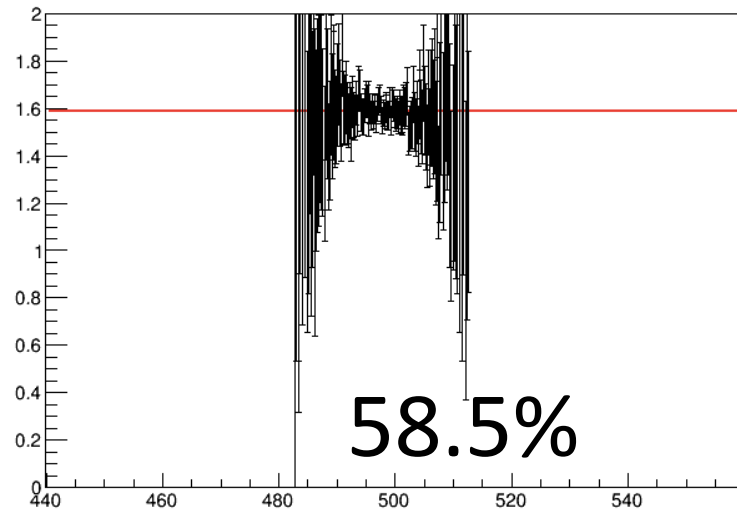


Checking the Effect of Back Splash Recovery

Back Splash Recovery On KL3pi0

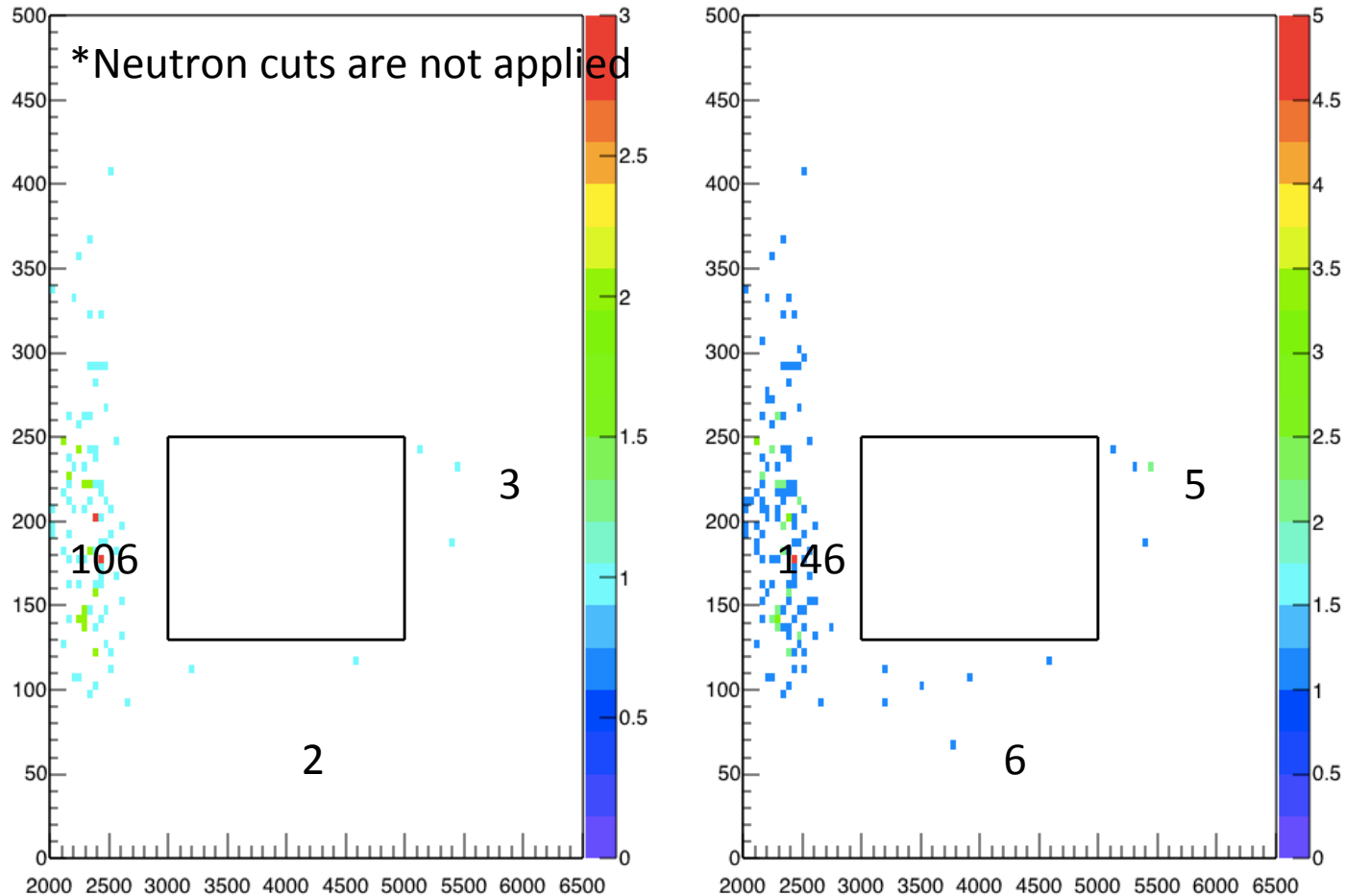
- Need to Check Recovery Efficiency in M.C.

M.C.



- **60% $K_L \rightarrow 3\pi^0$ Recovered**

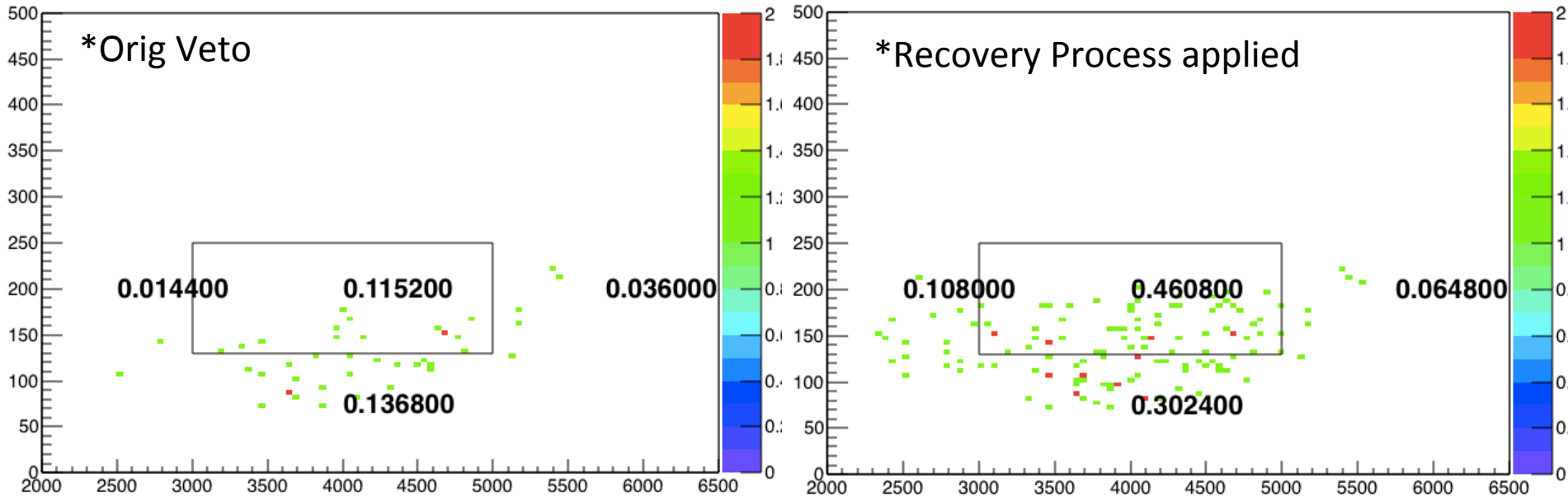
Back Splash Recovery @ Run62



- Background events increased, too.

Background Rejection Check

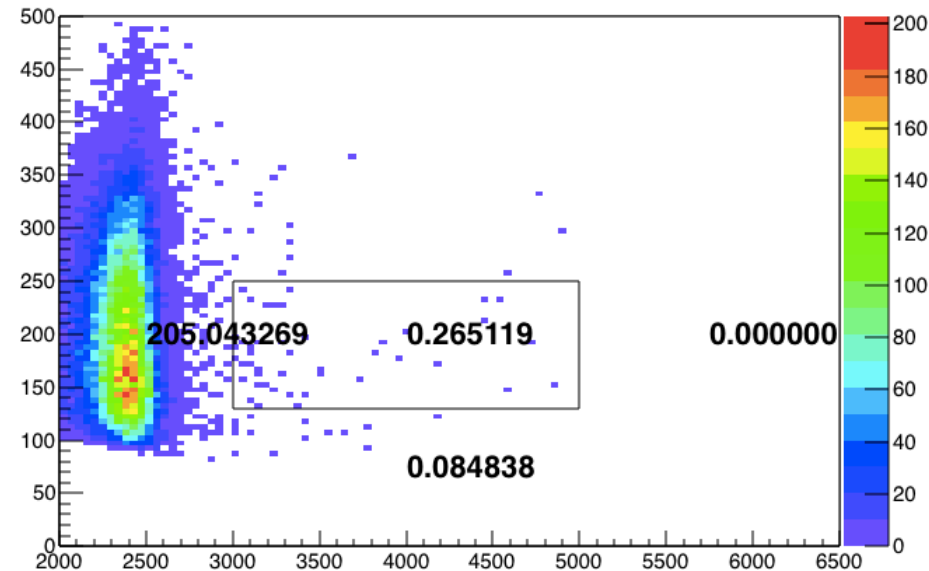
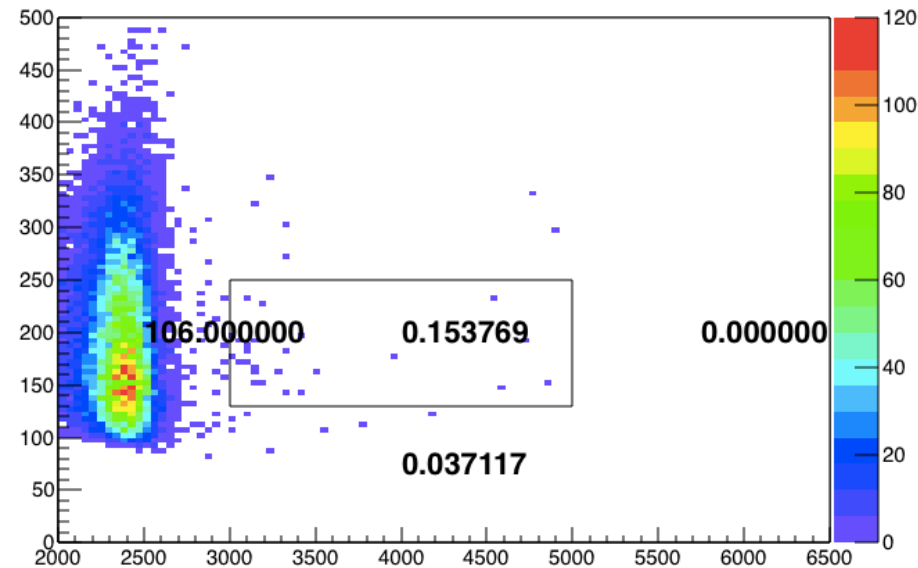
KLpi0pi0



- Not so effective.

Background Rejection Check

NCC



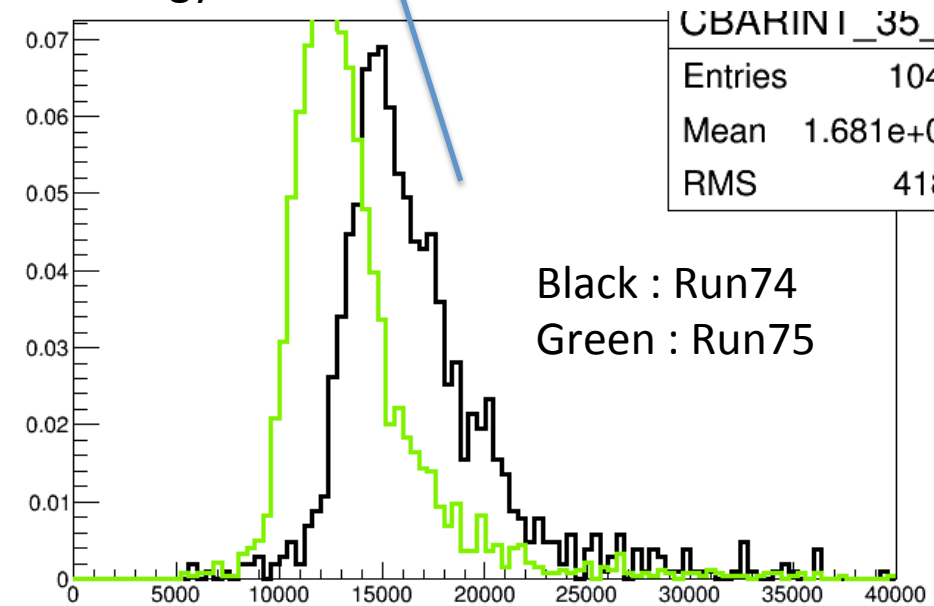
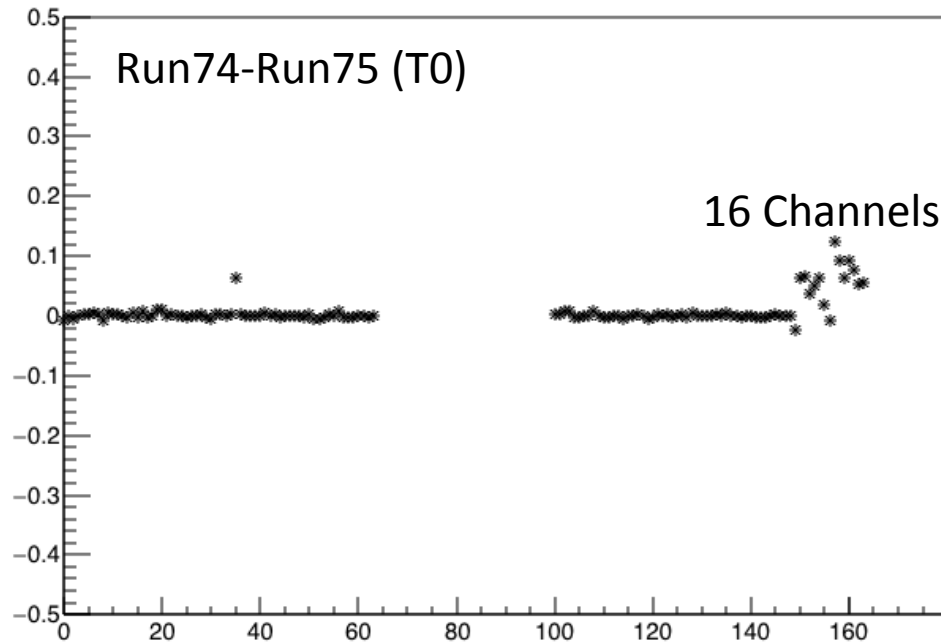
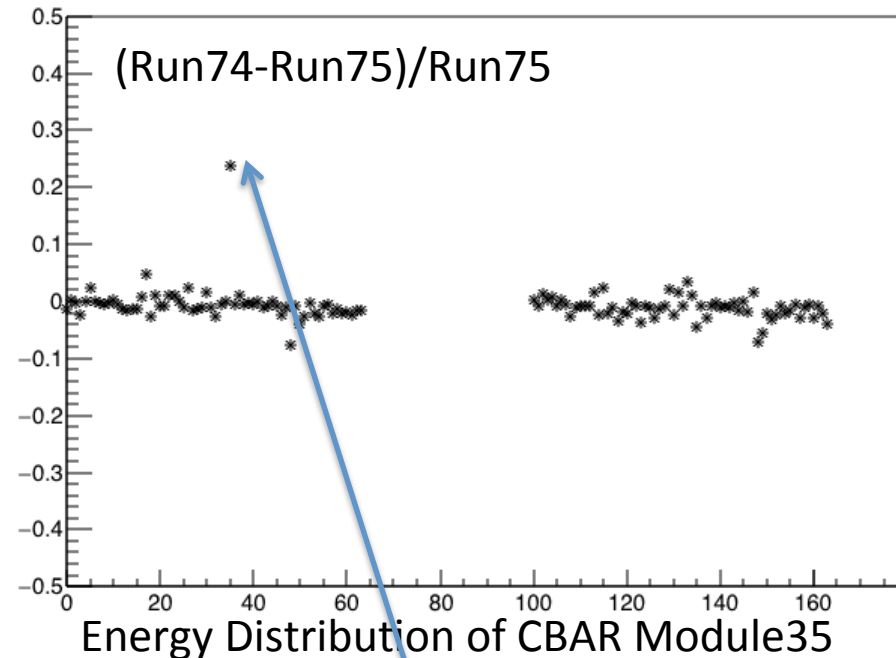
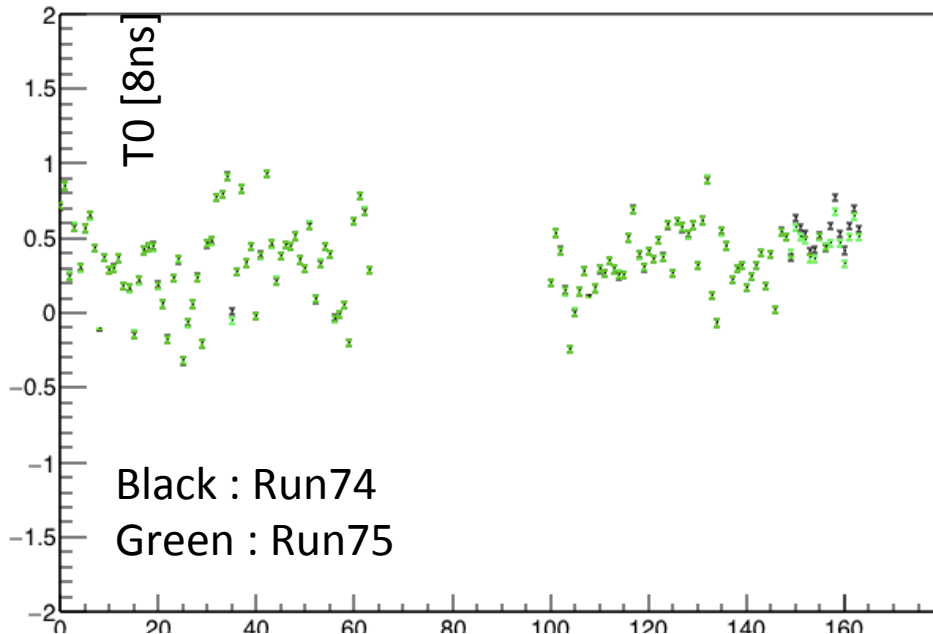
- Discrepancy on Upstream Event
 - MC : 106- \rightarrow 205
 - Data : 106- \rightarrow 146
- Not effective on LowPt Event and Downstream Event

Run74 & Run75 Calibration

- IBCV 127 Mis-Calibration occurred by my mistake
 - Fixed
- Inner Side of MB MIP energy
 - 7.14
 - 14.98 or 15.0 for Outer Side of MB
- Calibration Factors are sent to shinohara san.

CBAR Calibration Constants

MIP



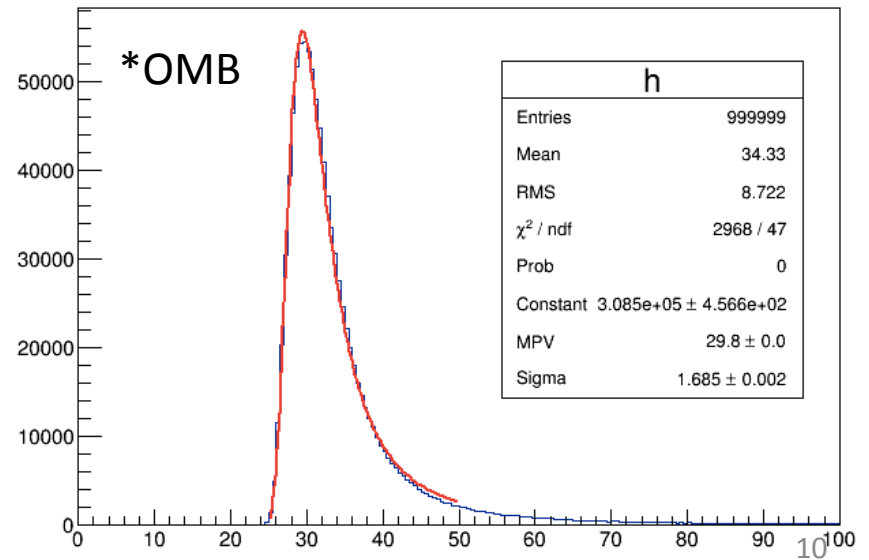
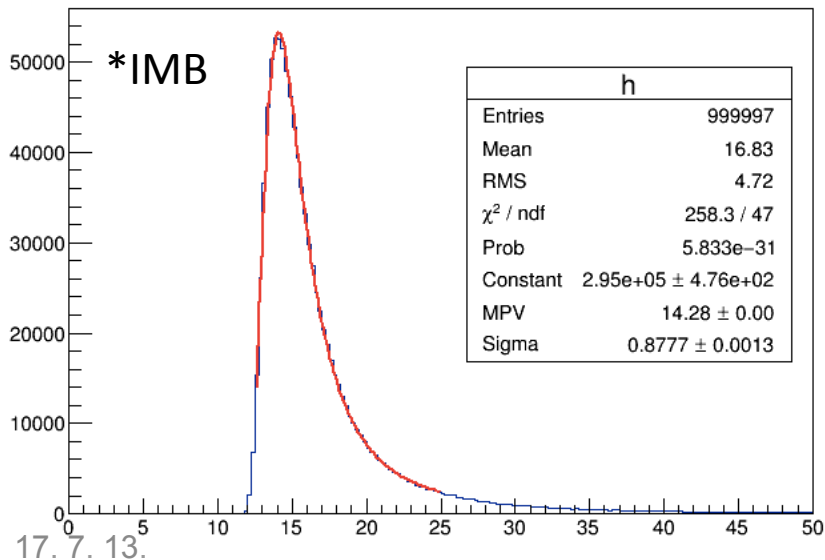
Things to do

- Keep studying on back splash recovery
 - Understanding of NCC Background (?)
- Inefficiency Study
 - Now, I'm trying...

Backup

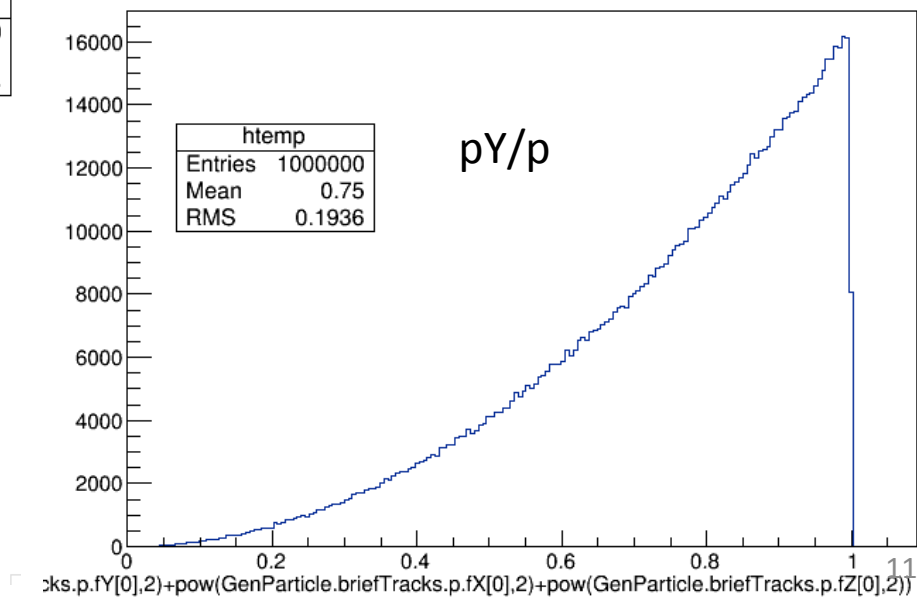
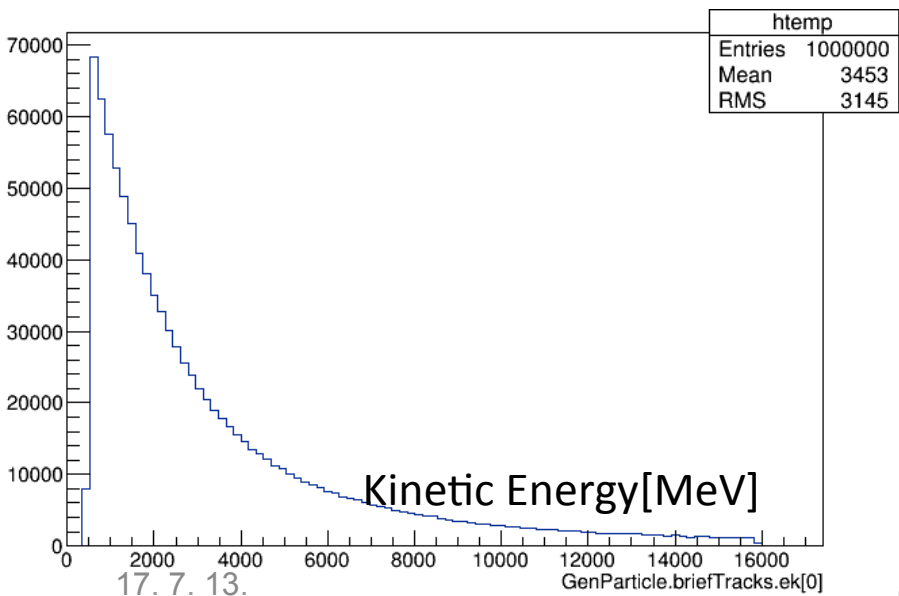
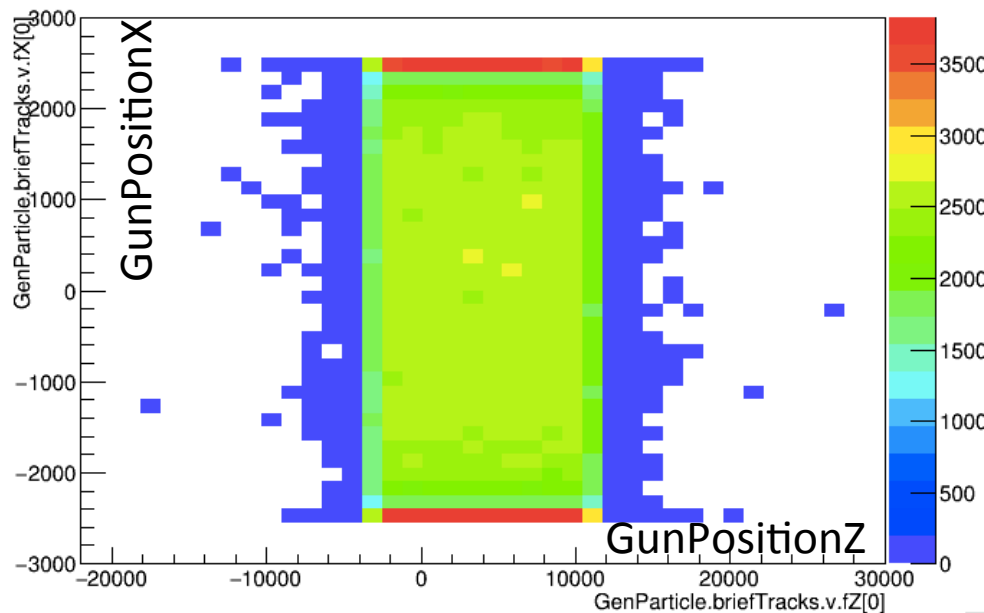
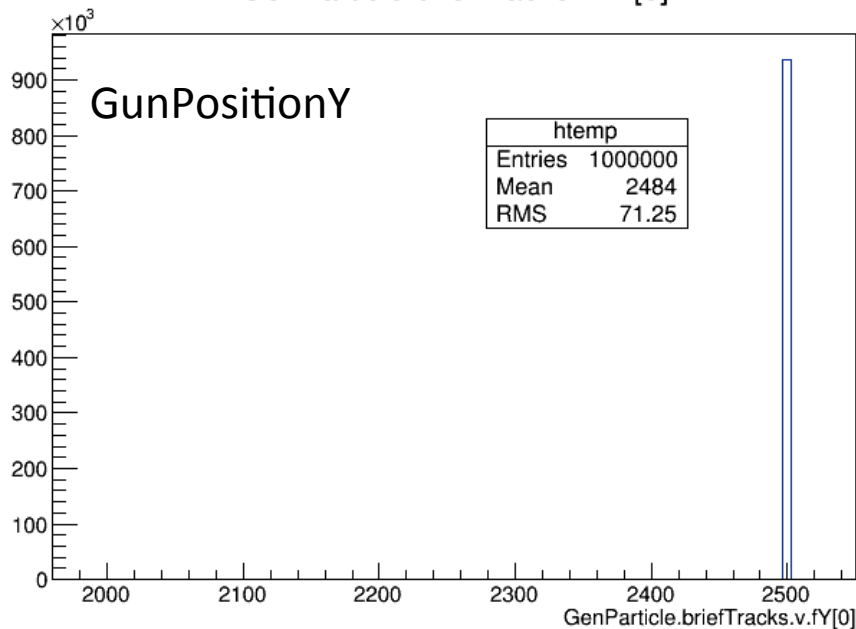
M.C. version 1

- Shoot Muon (5GeV)
 - Generation Position : 0, 2m, 4.073m
 - Center of MB
 - Momentum Direction : 0, -1, 0



M.C. version 2 (Generation Info.)

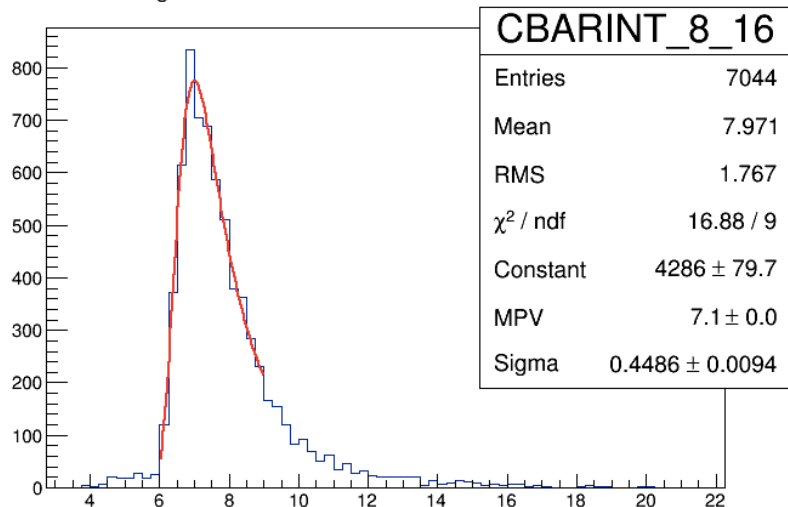
GenParticle.briefTracks.v.fY[0]



MIP Peak (Center) from Ver2

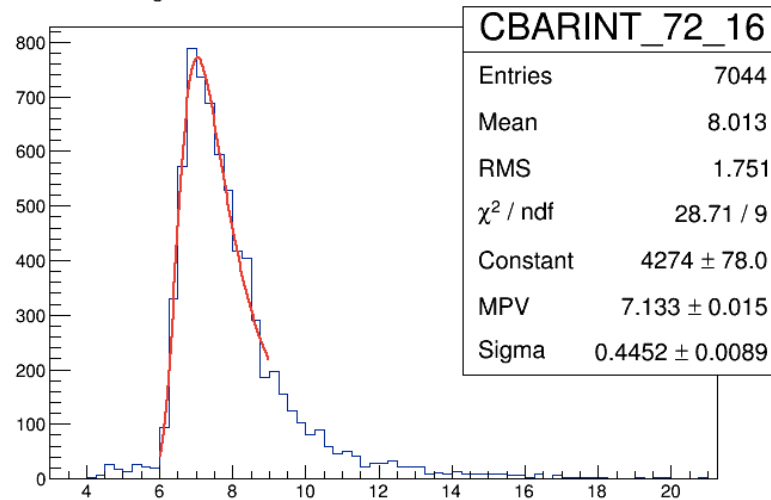
*IMB, Upstream PMT, Module8

IntegratedADC distribution / ModID : 8 / Position : 16



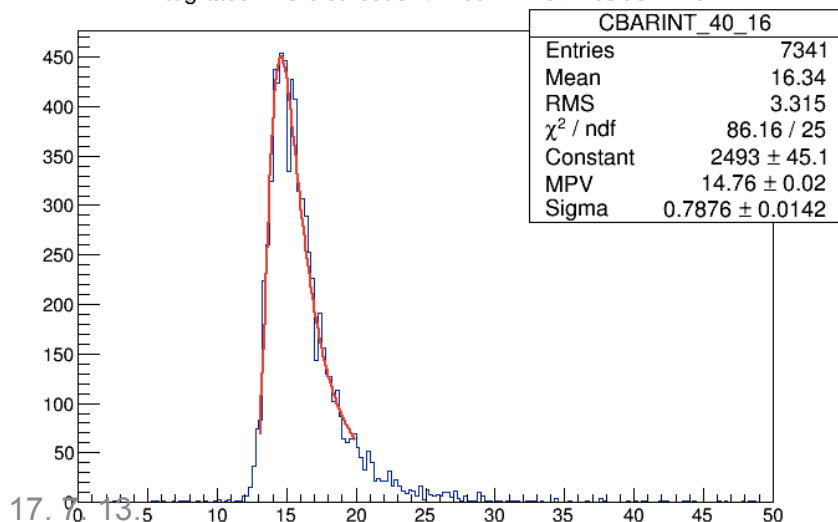
*IMB, Downstream PMT, Module8

IntegratedADC distribution / ModID : 72 / Position : 16



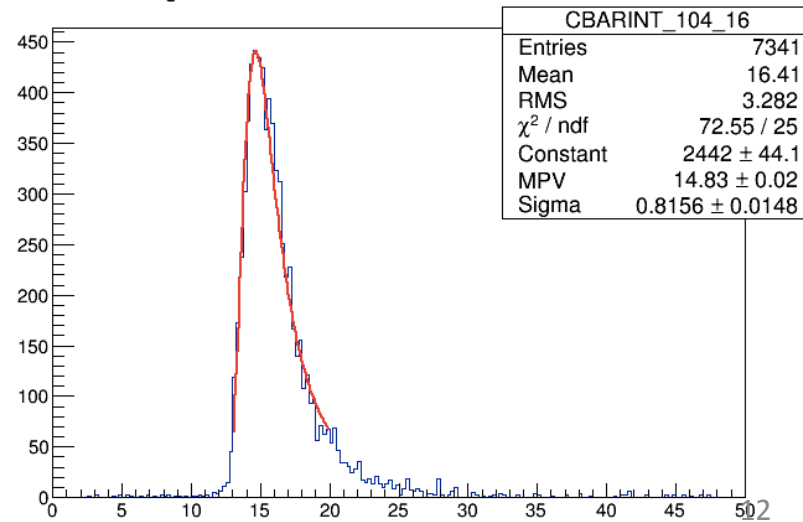
*OMB, Upstream PMT, Module40

IntegratedADC distribution / ModID : 40 / Position : 16

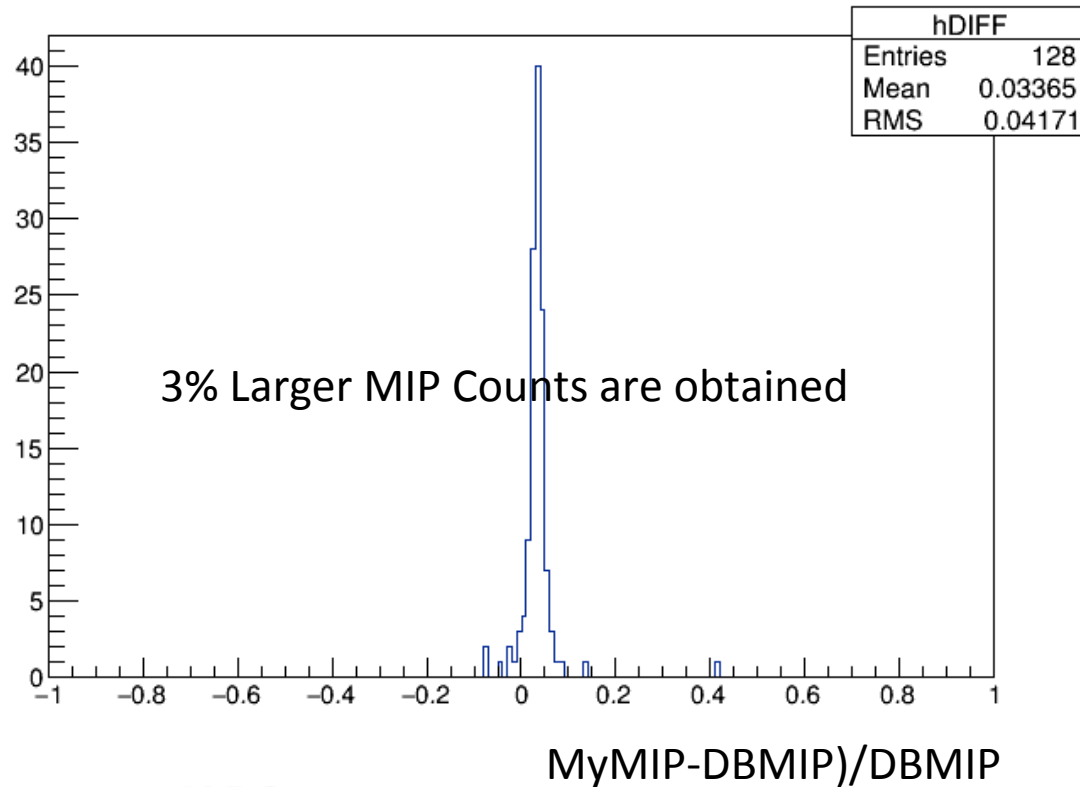


*OMB, Downstream PMT, Module40

IntegratedADC distribution / ModID : 104 / Position : 16



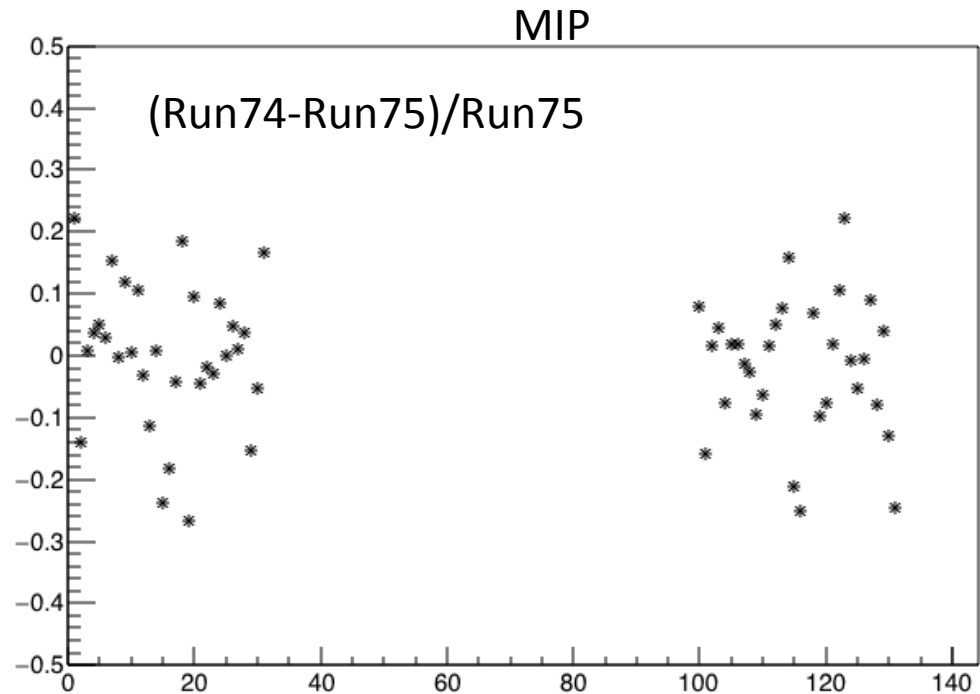
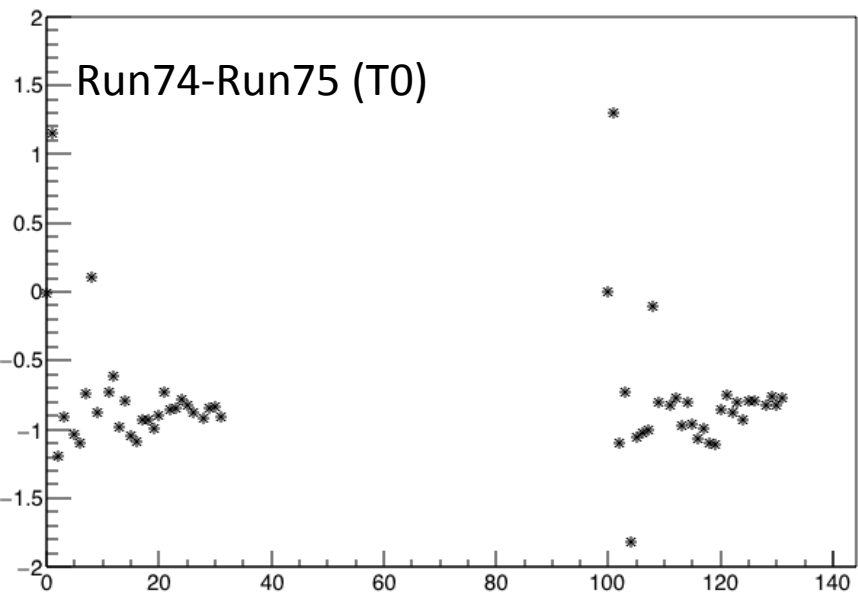
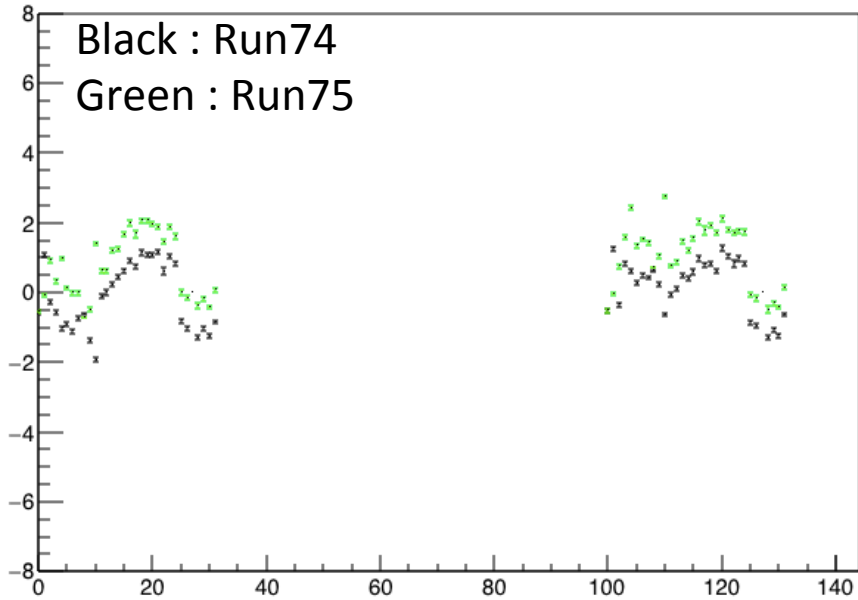
Difference of Calibration constant



$$\text{Energy} = \frac{\text{IntegratedADC}}{\text{MIP Count}} \text{TargetEnergy}$$

	MIP Count	Target Energy	Energy
IMB	3% increased	5% decreased	~8% decreased
OMB ^{17. 7. 13.}	3% increased	No change	~3% decreased

IBCV Calibration Constants



MBCV Calibration Constants

