For Kin3

since we do not have the dp I use the actual momentum instead.

Following are the data with
1 electron PID :   T3 no edtm && (prl_sum/electron_momentum)>0.6
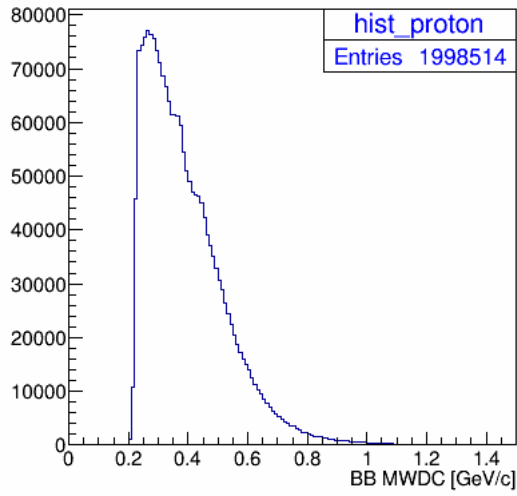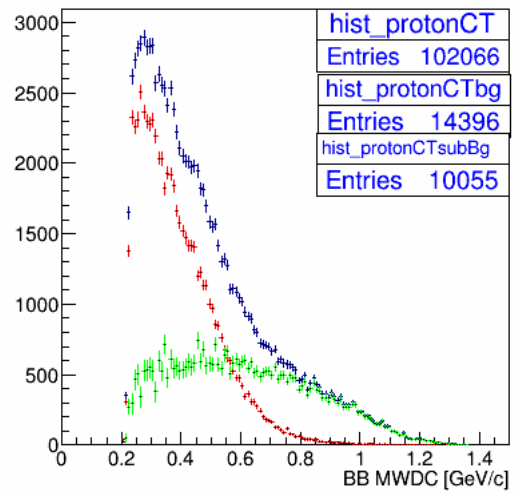2 L vertex cut : |z|<=0.075 m
3. proton PID: graphic   E vs p
4. add CT time :   +/-3.5 ns
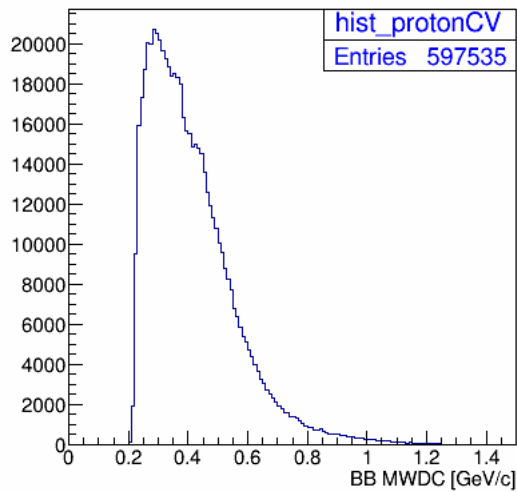5. *add the estimated coincidence vertex: abs(rpl.z-BB.tr.tg_y*1.12+0.007)<=0.04
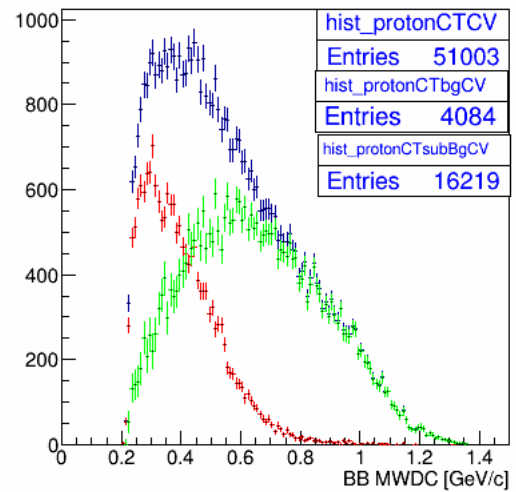
CT: 102066   CTbg: 61511   CT-bg: 40555
CTCV: 51003   CTbgCV: 17637   CTCV-bg: 33366
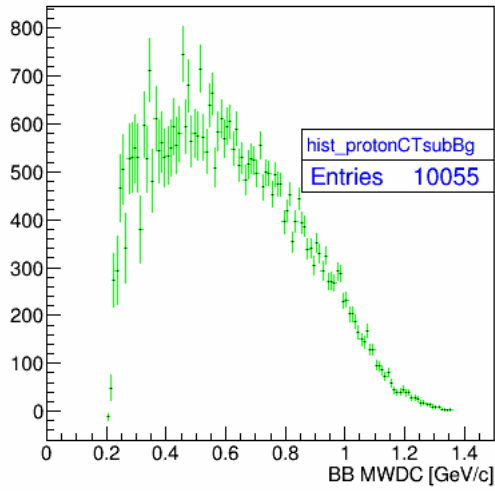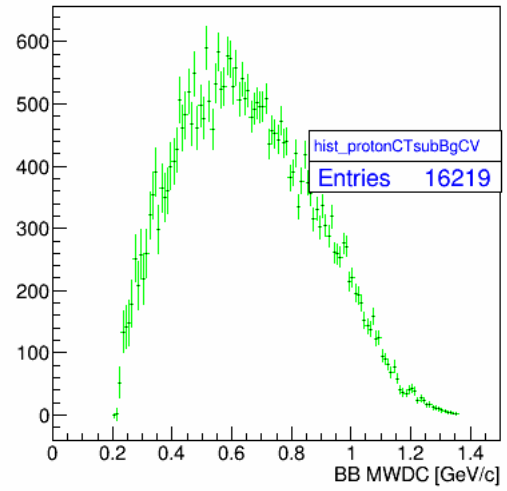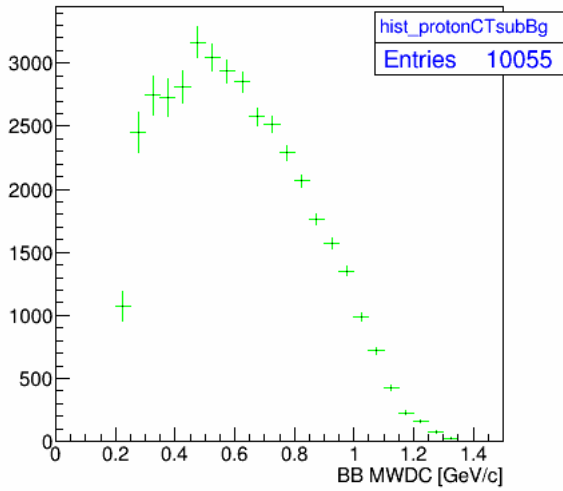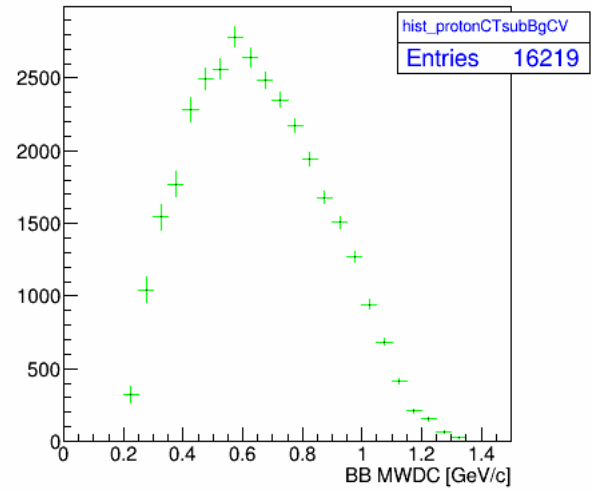
10 MeV/c/bin
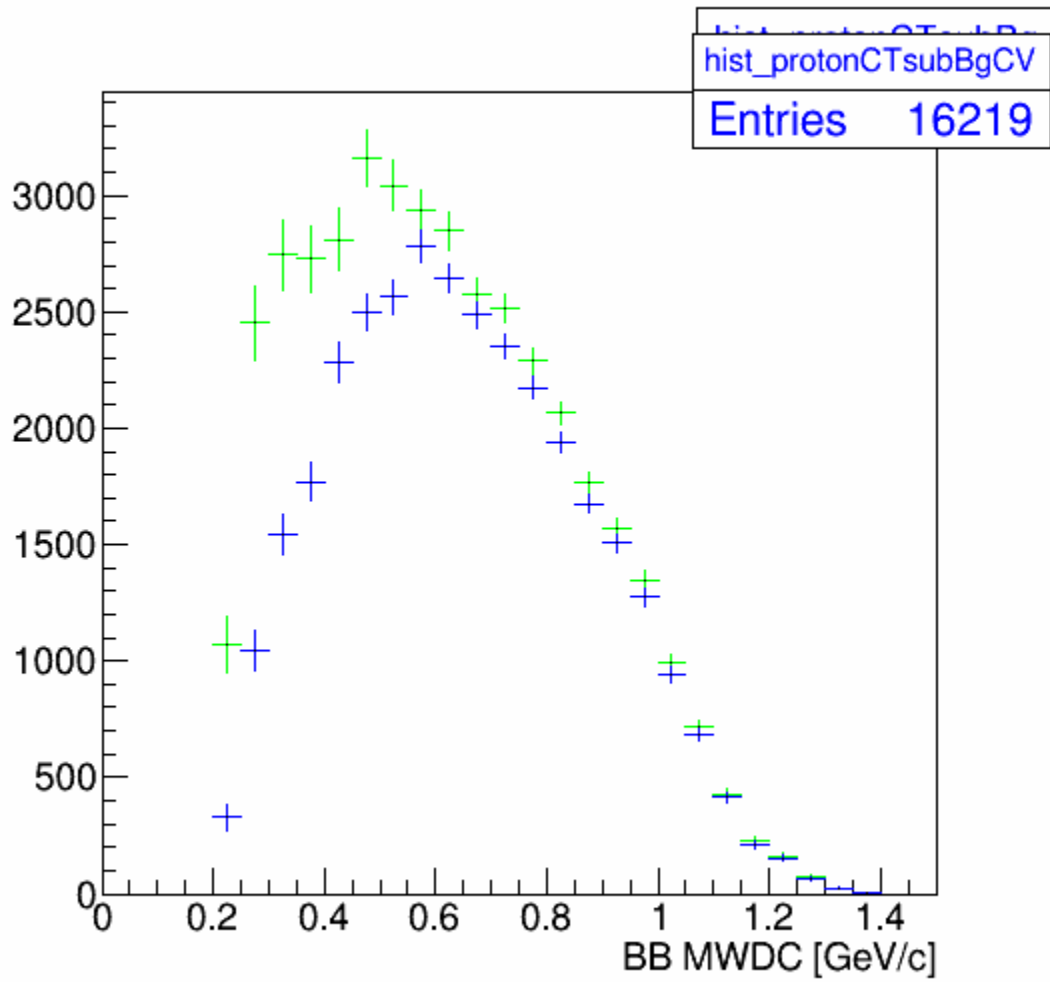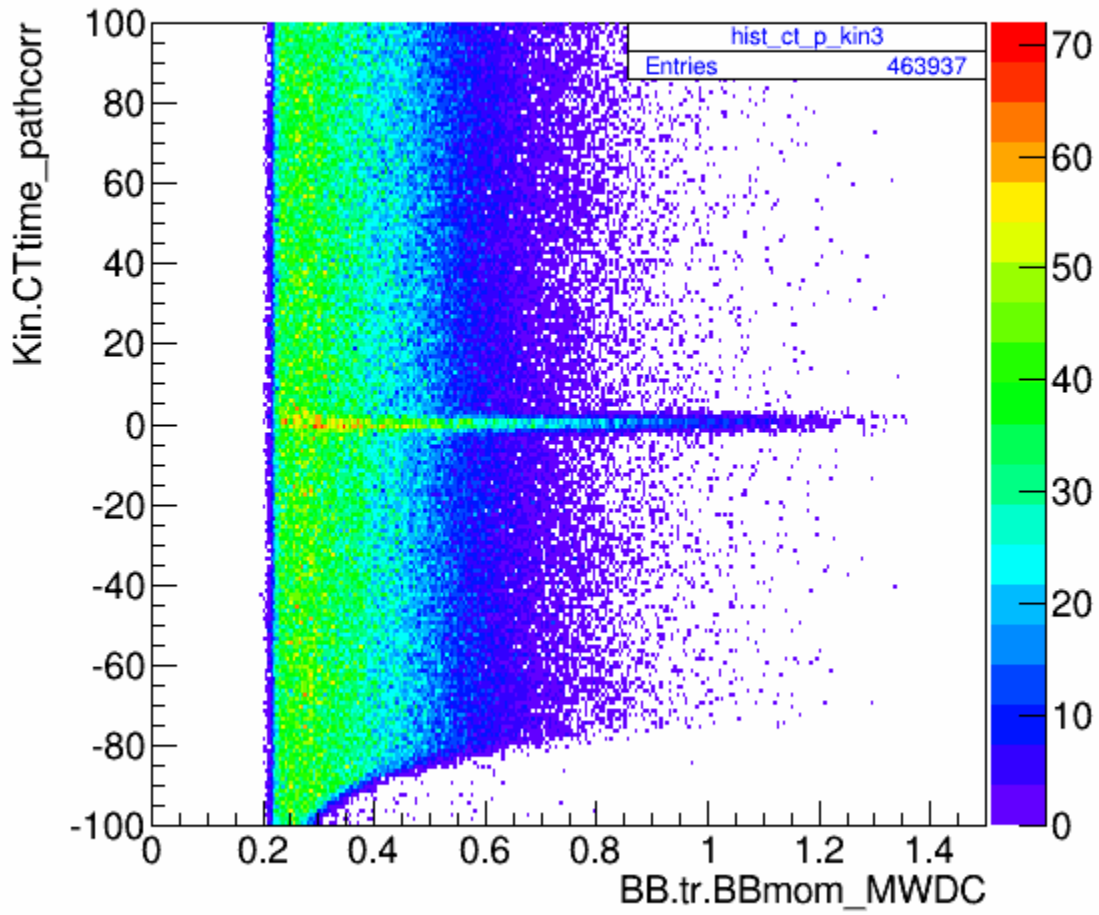

50 MeV/c/bin

Momentum distribution with background subtraction
in 50 MeV/c/bin
green: protonCTsubBg
blue: protonCTsubBgCV

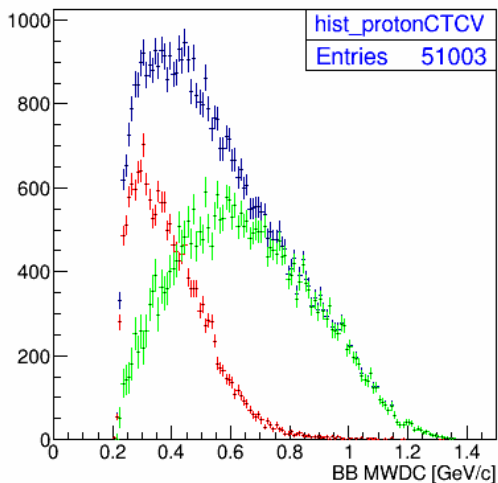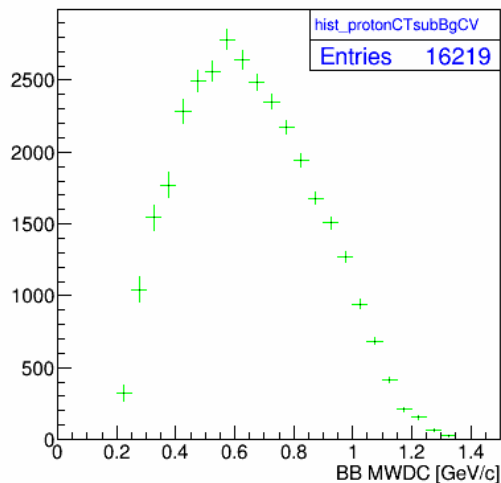The CT vs momentum showing the background in term of momentum dependence for Kin3.

Test variation of the CV cut

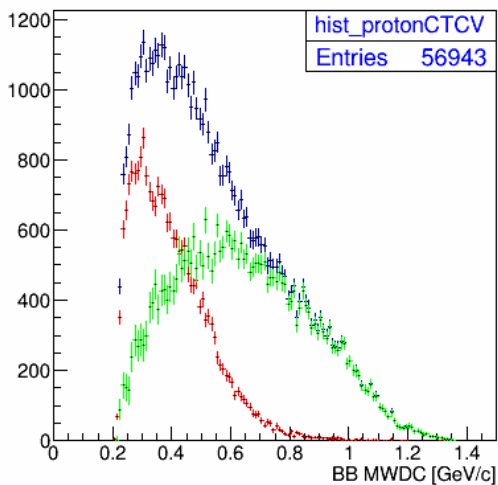CTCV: 51003 CTbgCV: 17637   CTCV-bg: 33366 +/- 225 +/- 132
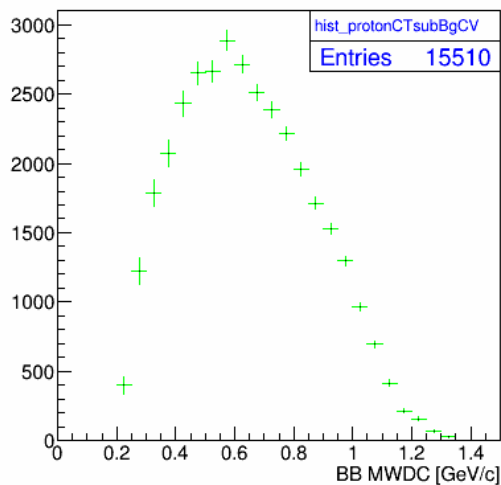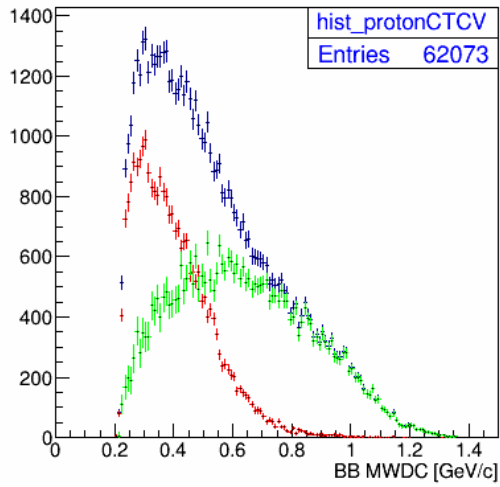

CTCV: 56943 CTbgCV: 21960   CTCV-bg: 34983 +/- 238 +/- 148

hist_protonCTCV_6_cm

hist_protonCTsubBgCV

hist_protonCTCV
Entries   62073

hist_protonCTsubBgCV
Entries   14796

BB MWDC [GeV/c]
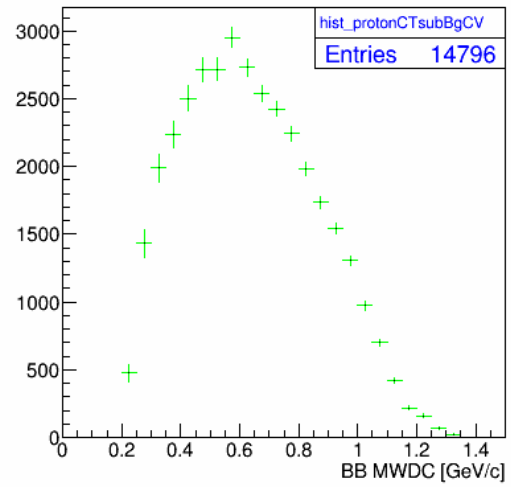
CTCV: 62073 CTbgCV: 25979   CTCV-bg: 36094 +/- 249 +/- 161

hist_protonCTCV_7_cm

hist_protonCTsubBgCV

hist_protonCTCV
Entries   66718

hist_protonCTsubBgCV
Entries   14129

BB MWDC [GeV/c]
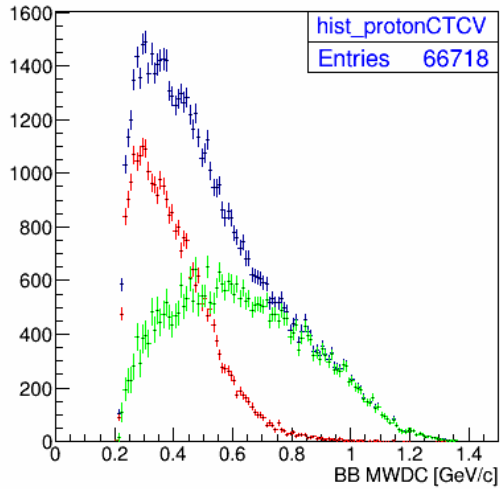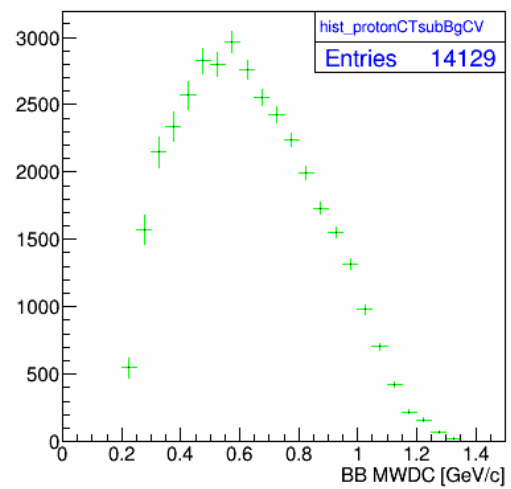
CTCV: 66718 CTbgCV: 29791   CTCV-bg: 36927 +/- 258 +/- 172