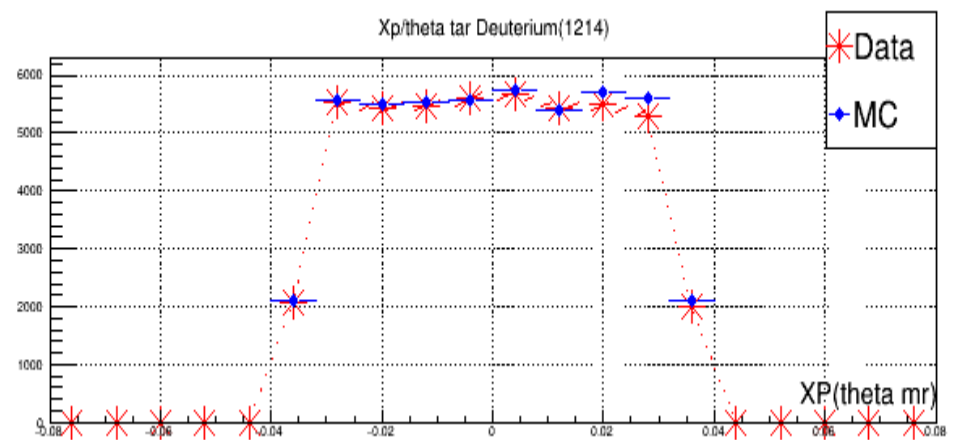
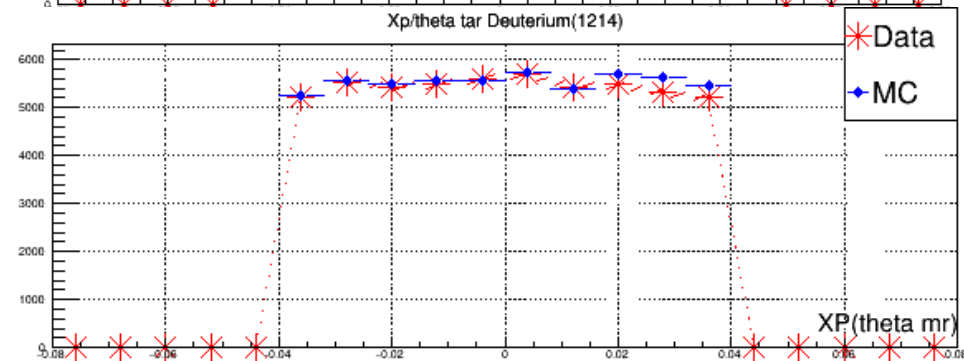
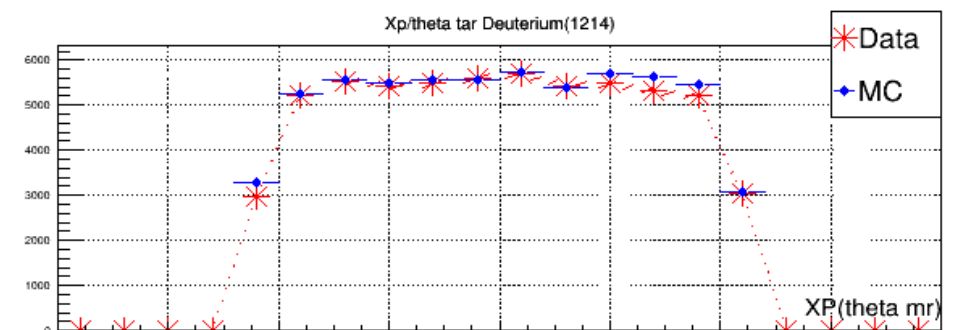
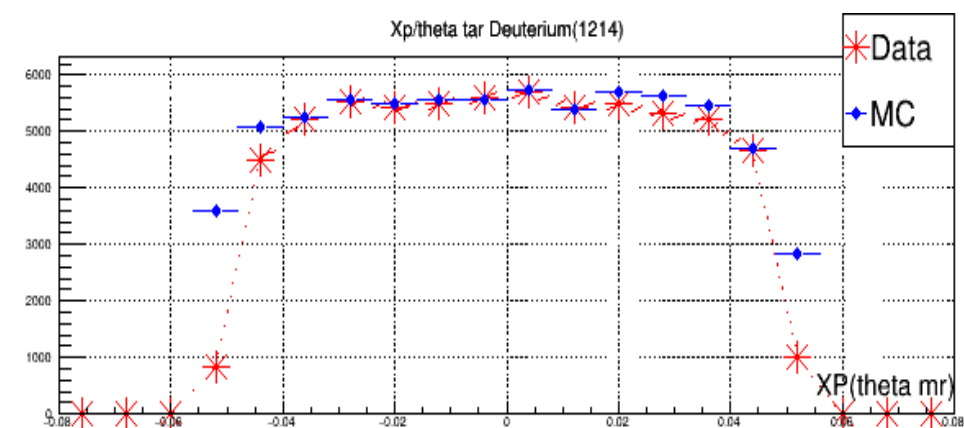


Monte Carlo to Data comparison

- $\text{abs}(y_{\text{ptar}}) \leq 0.03$
- $\text{abs}(x_{\text{ptar}}) \leq 0.04$
- $\text{abs}(z_{\text{tar}}) \leq 9.0$
- $\text{abs}(\text{delta}) < 4$
- $(\text{L.cer.asum_c} > 1500)$
- $(\text{L.prl1.e} + \text{L.prl2.e}) > P0 * 0.7$
- $(\text{L.tr.beta} > 0.5)$
- $\text{fabs}(\text{L.tr.tg_dp}) < 0.04$
- $\text{fabs}(\text{L.tr.tg_th}) < 0.04$
- $(\text{fabs}(\text{L.tr.tg_ph}) < 0.03)$
- $(\text{fabs}(\text{L.tr.vz}) < 0.09)$

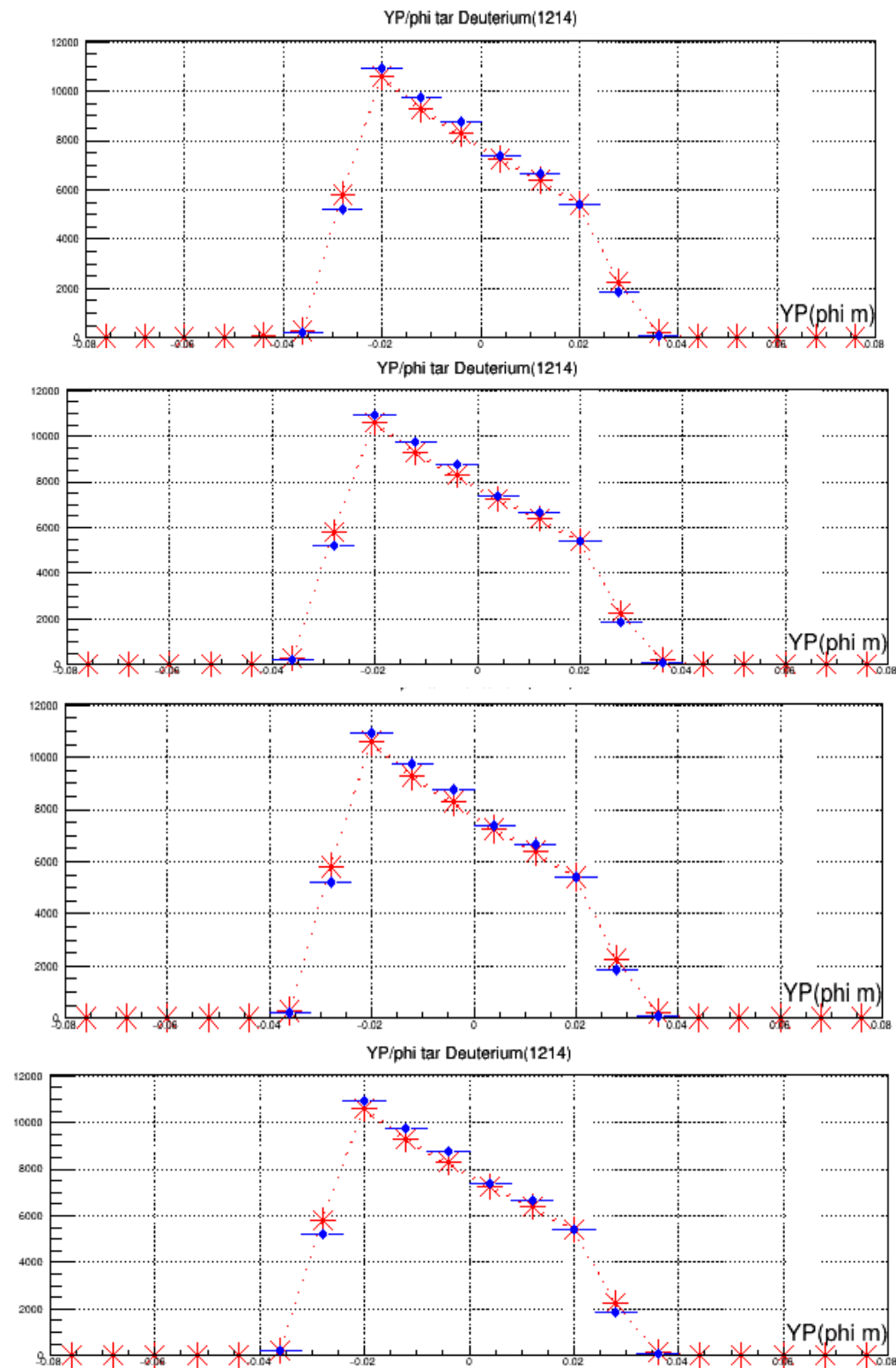
Scan xptar(theta) cut

- 0.05 mrad data/mc ~ 0.914
~65K events ~ err 0.0039
- 0.045 mrad data/mc ~ 0.979
~60K events ~ err 0.0041
- 0.04 mrad data/mc ~ 0.983
~54K events ~ err 0.0043
- 0.035 mrad data/mc ~ 0.982
~48K events ~err 0.0045



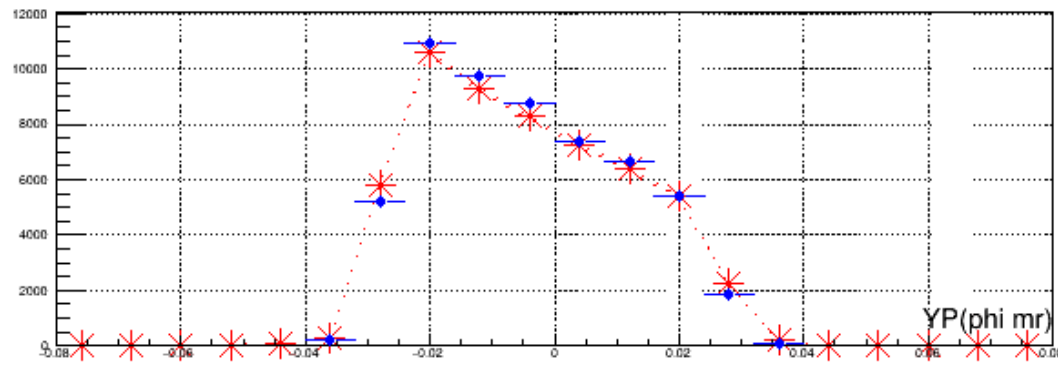
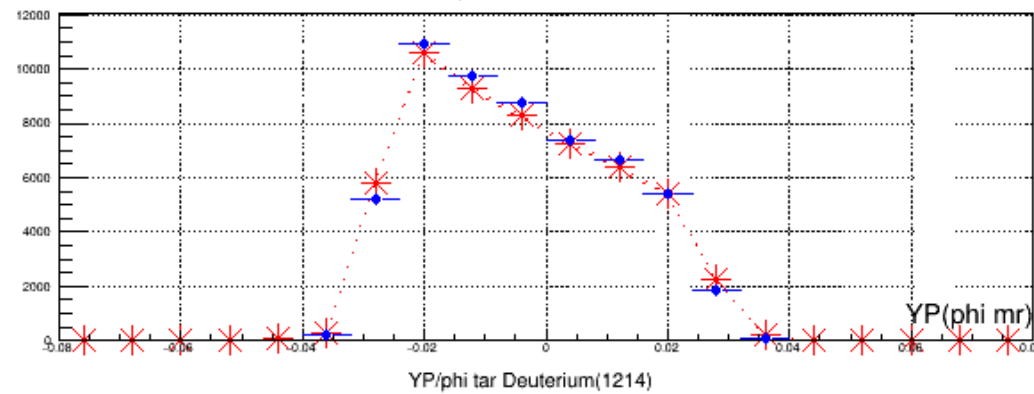
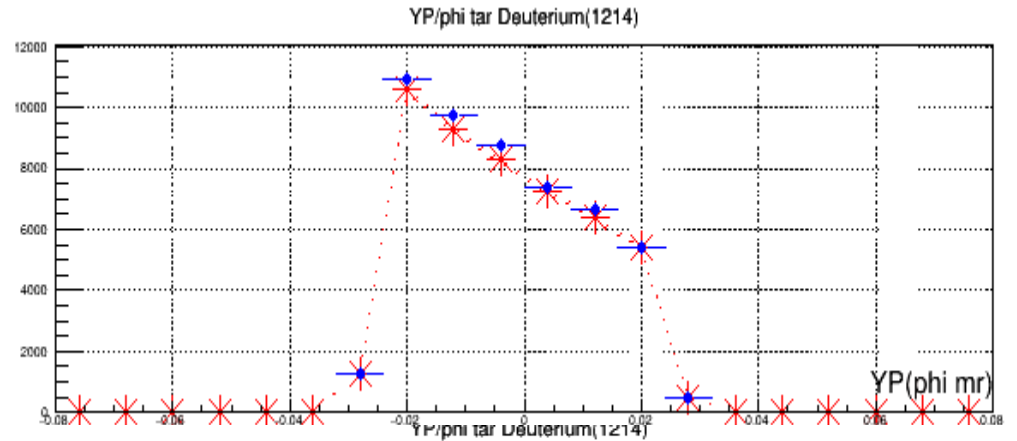
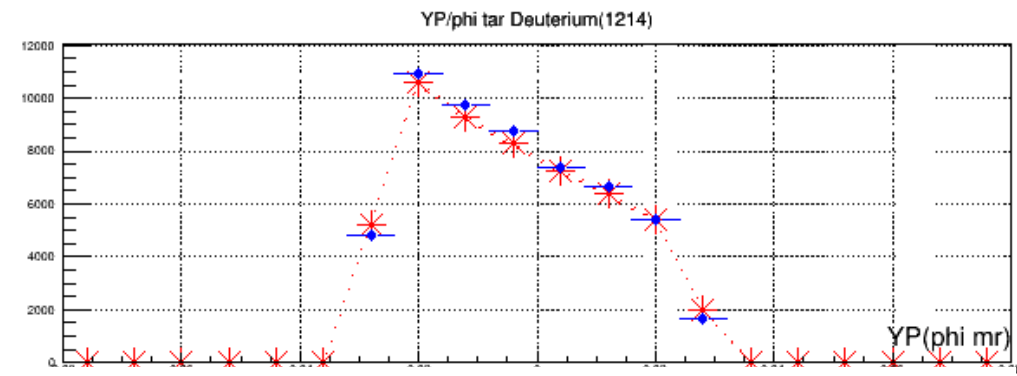
Scan yptar(phi) cut

- 0.05 mrad data/mc ~ 0.993
 $\sim 55\text{K}$ events $\sim \text{err } 0.0042$
- 0.045 mrad data/mc
 ~ 0.992 $\sim 55\text{K}$ events $\sim \text{err } 0.0042$
- 0.04 mrad data/mc ~ 0.991
 $\sim 55\text{K}$ events $\sim \text{err } 0.0042$
- 0.035 mrad data/mc ~ 0.99
 $\sim 55\text{K}$ events $\sim \text{err } 0.0042$
-



Scan yptar(phi) cut

- 0.3 mrad data/mc ~ 0.983
 $\sim 54\text{K}$ events $\sim \text{err } 0.0042$
- 0.025 mrad data/mc ~ 0.967
 $\sim 48\text{K}$ events $\sim \text{err } 0.0045$
- 0.055 mrad data/mc
 ~ 0.9939 $\sim 55.7\text{k}$ err
 ~ 0.0042
- 0.06 mrad data/mc ~ 0.994
 $\sim 55.8\text{k}$ err ~ 0.0042

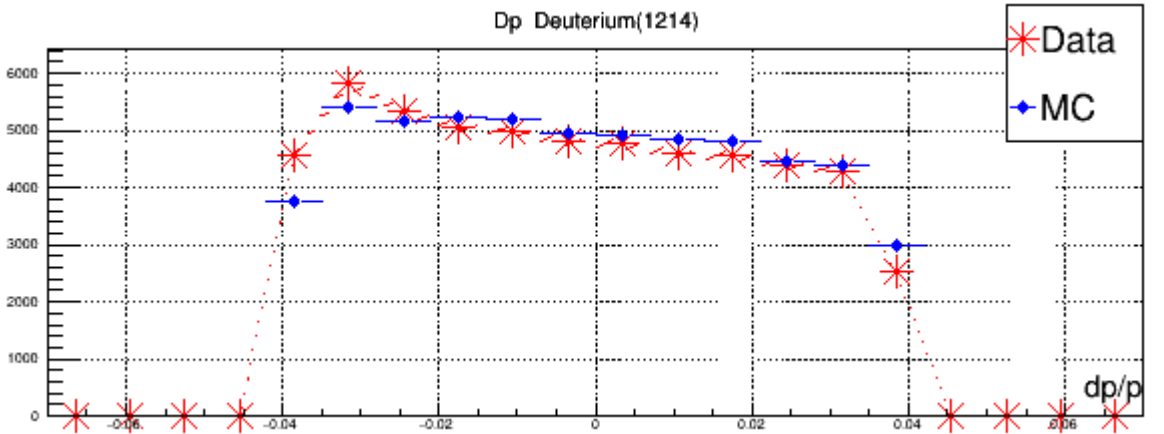
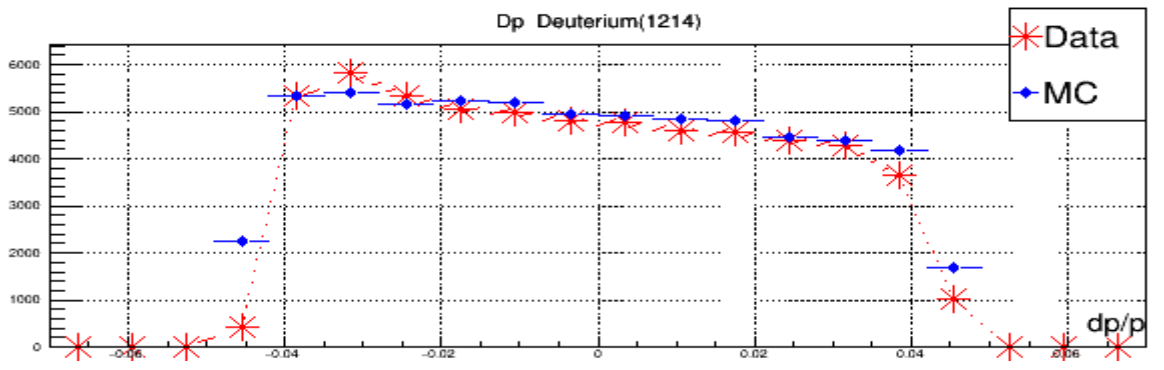
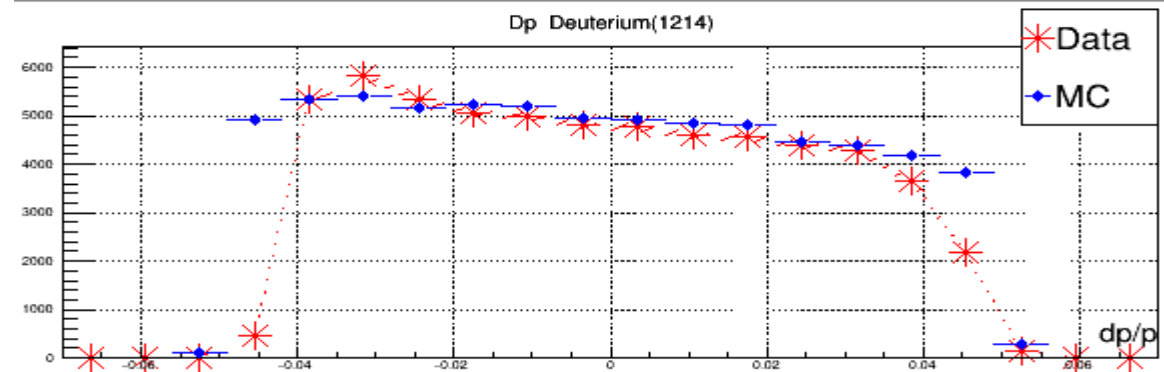
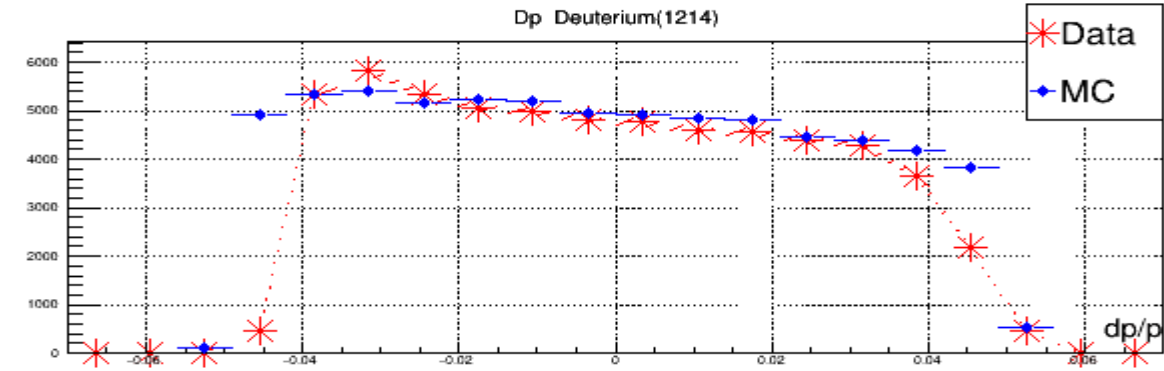


Scan xptar(theta) cut with phi at 0.05 mrad

- 0.06 mrad data/mc ~0.979 ~72K ~ err 0.0037
 - 0.055 mrad data/mc ~0.981 ~70K ~ err 0.0037
 - 0.05 mrad data/mc ~0.983 ~68k ~ err 0.0038
 - 0.045 mrad data/mc ~0.988 ~61K ~ err 0.0040
 - 0.040 mrad data/mc ~0.993 ~55k ~err 0.0042
 - 0.035 mrad data/mc ~0.993 ~49k ~err 0.0045
-
- Set new theta and phi cuts to 0.04 and 0.05

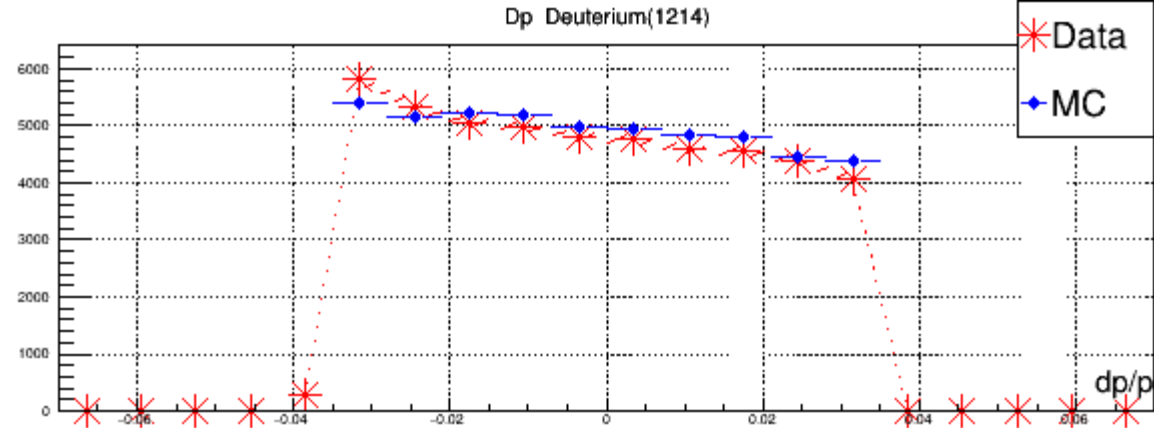
Scan in delta!

- $Dp/p = 0.055$ data/mc ~ 0.89
 $\sim 60K$ events \sim err 0.004
- $Dp/p = 0.05$ data/mc ~ 0.89
 $\sim 60K$ events \sim err 0.004
- $Dp/p = 0.045$ data/mc ~ 0.94
 $\sim 59K$ events \sim err 0.0041
- $Dp/p = 0.04$ data/mc ~ 0.993
 $\sim 55K$ events \sim err 0.0042



Scan in delta!

- $Dp/p = 0.035$ data/mc ~ 0.99
 $\sim 48K$ events $\sim \text{err } 0.0045$



Residual plots

- DP
- $Xp(\theta)$
- $Yp(\phi)$

