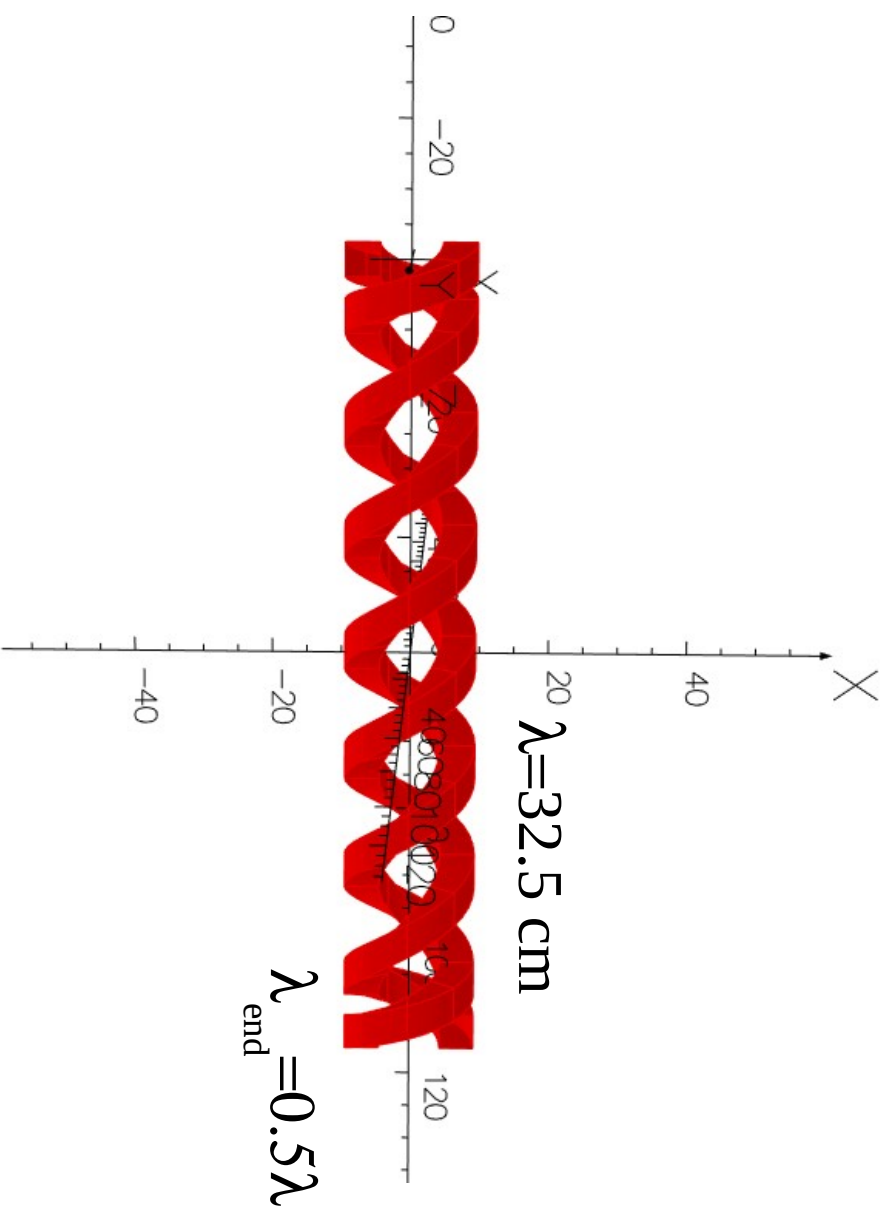
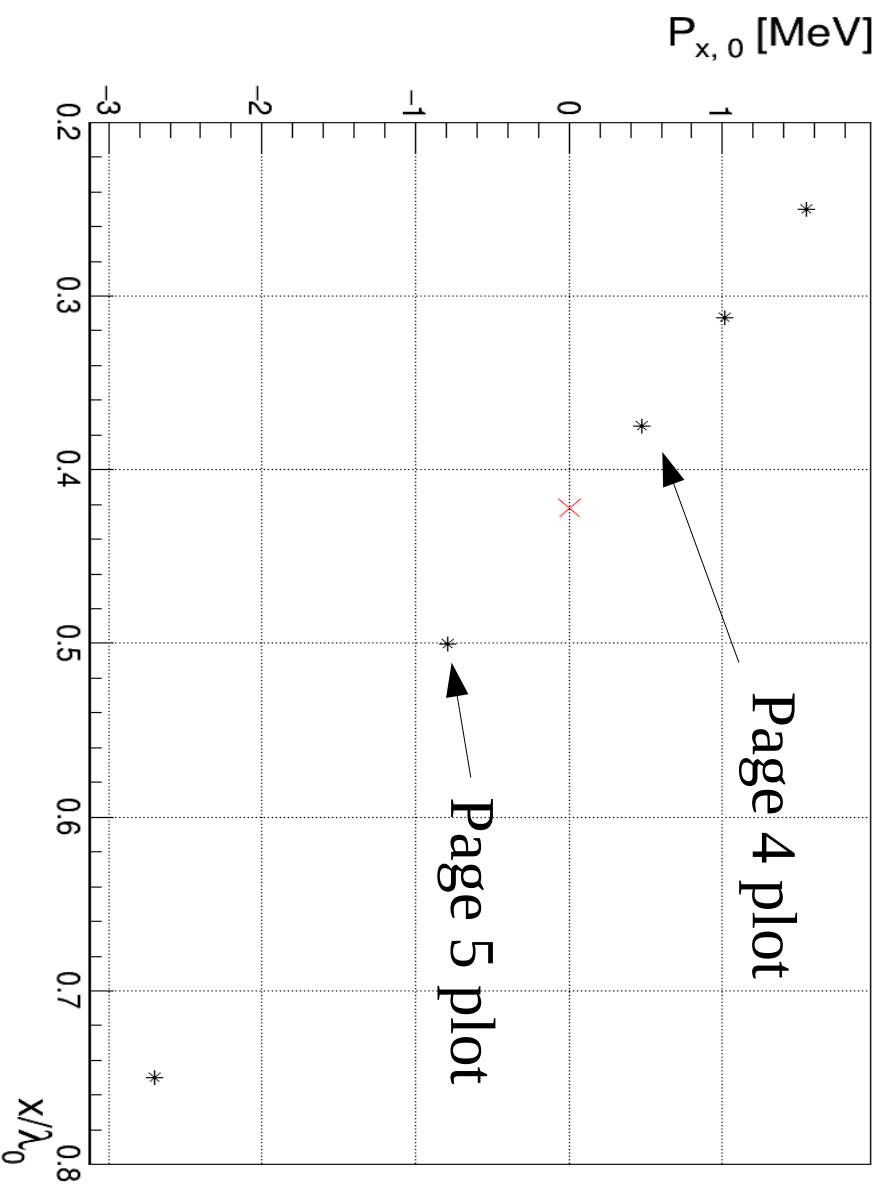


# **The status of the helical undulator field modeling**



Initial  $P_{x,0}$  vs  $x/\lambda_0$  (Und. period change position)



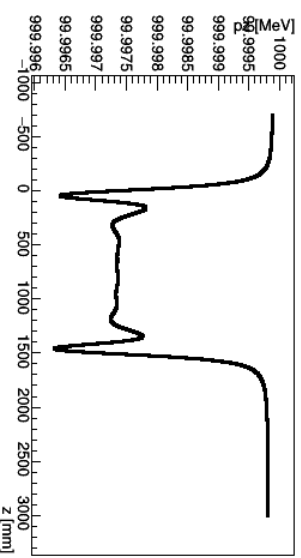
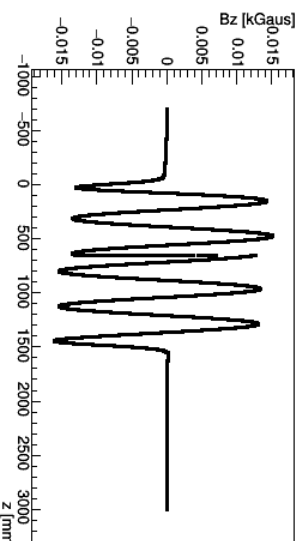
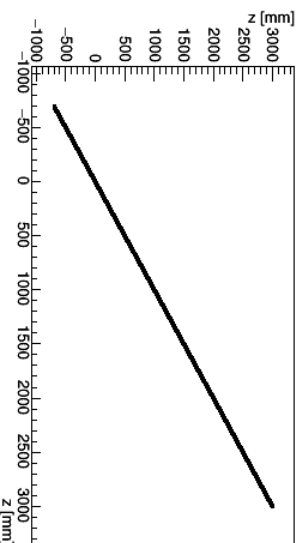
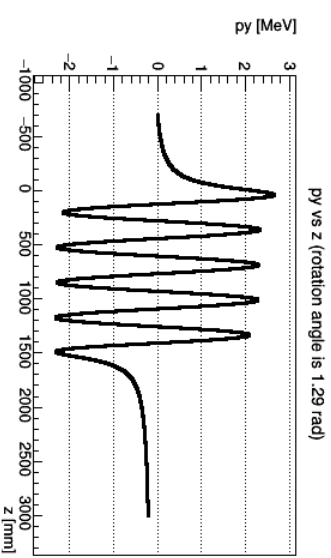
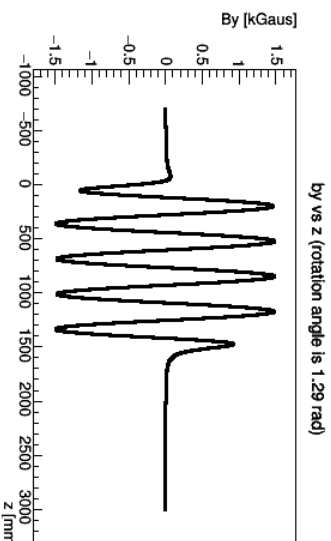
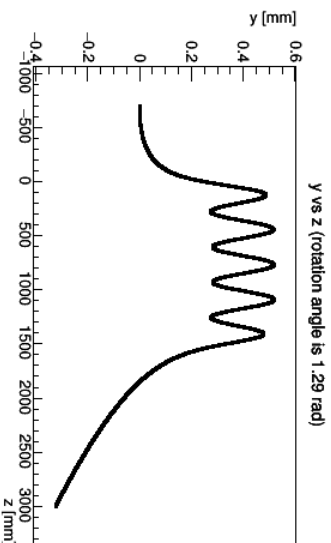
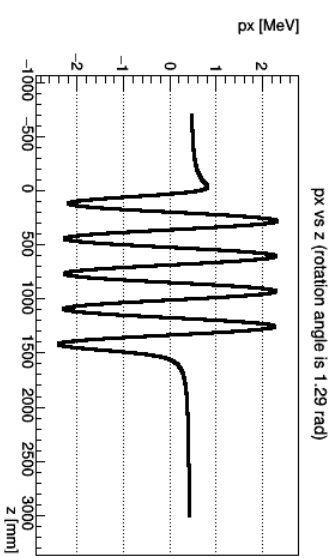
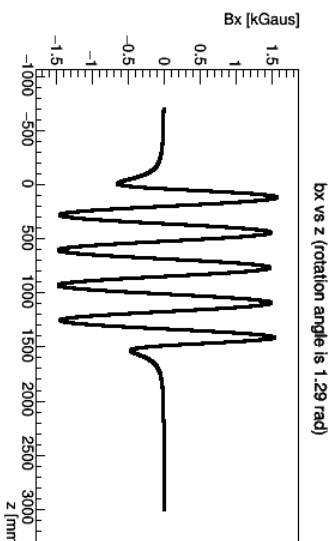
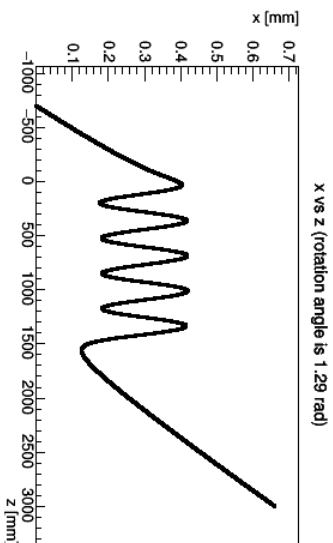
$$X = 3/8\lambda$$

$$P_{X,0} = 0.47 \text{ MeV}$$

$$\lambda_0 = 32.5 \text{ cm}$$

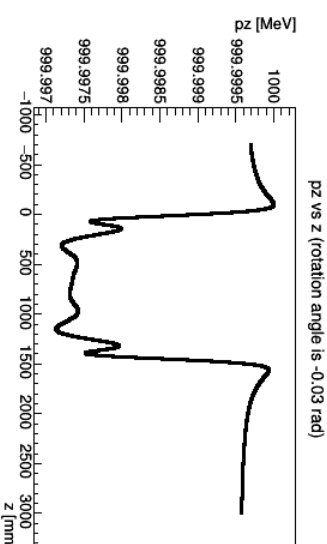
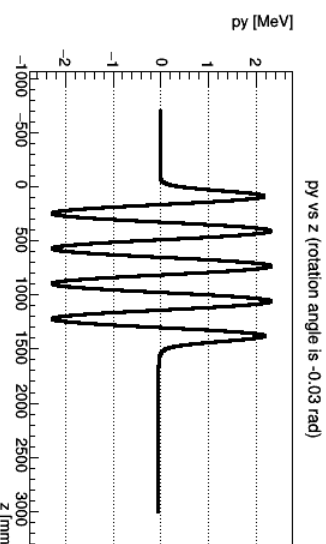
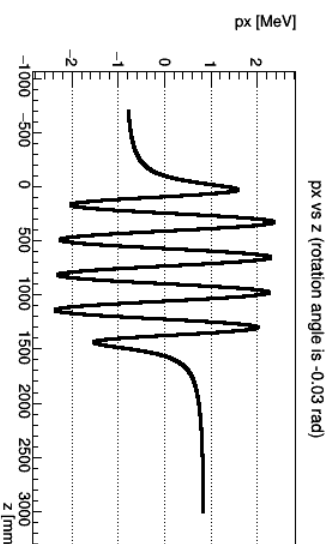
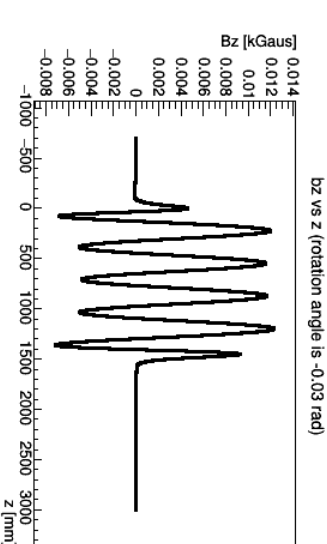
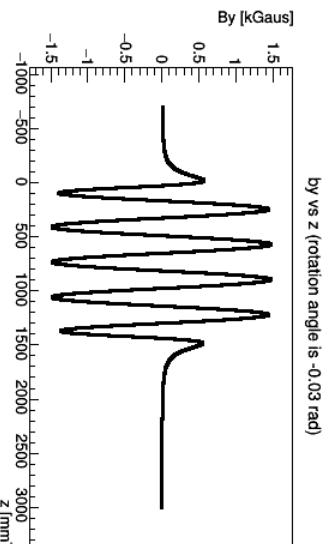
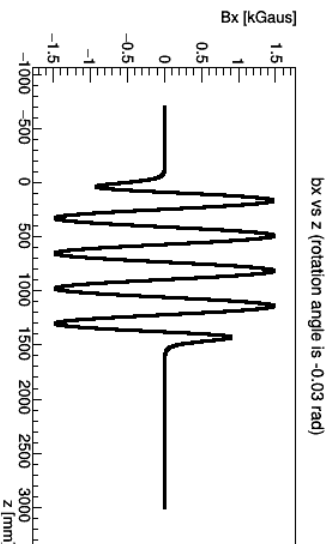
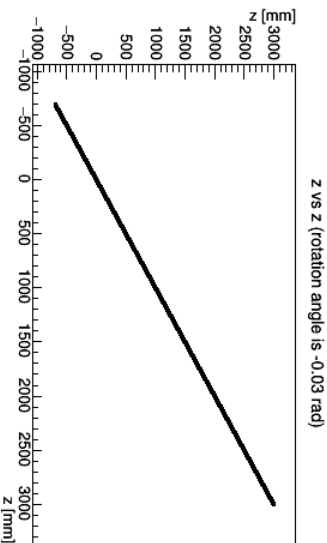
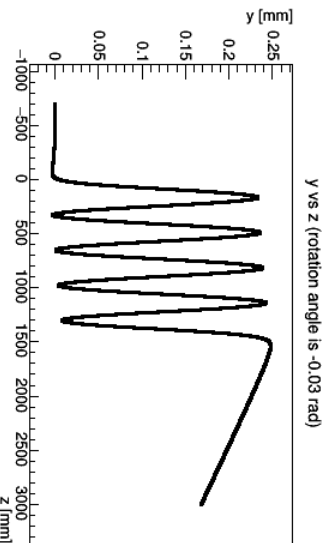
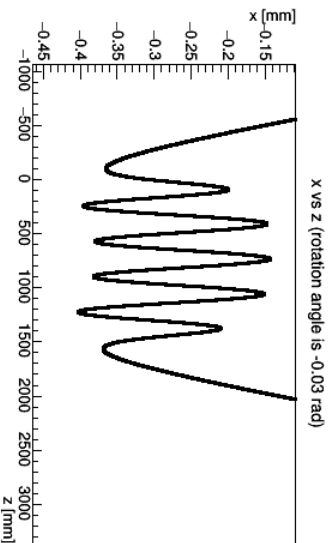
$$\lambda_{\text{end}} = 0.5 * \lambda$$

$$N = 4 \text{ turns}$$



$$X = 4/8\lambda$$

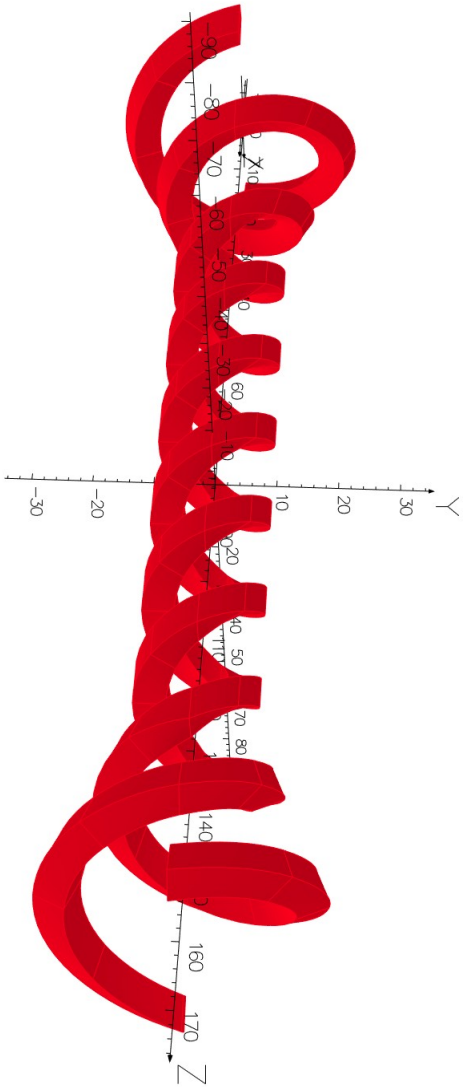
$$P_{X,0} = -0.78 \text{ MeV}$$



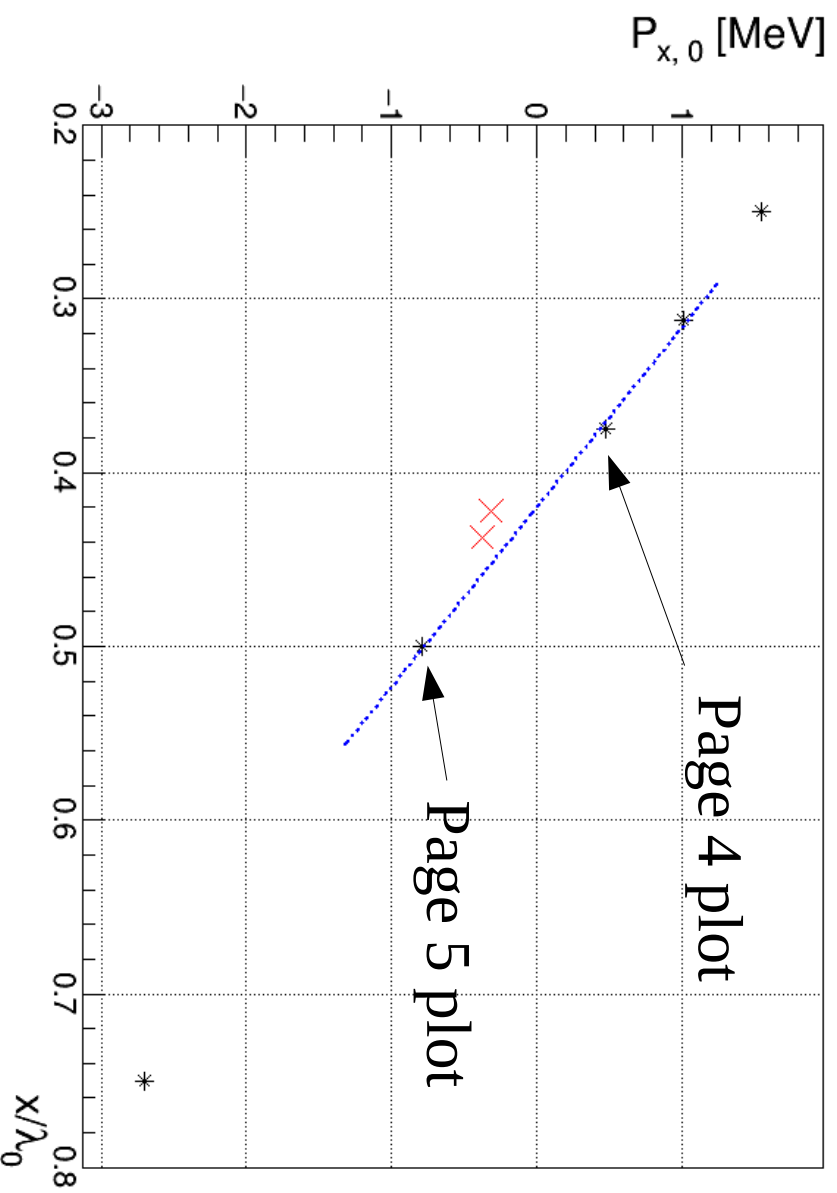
$$\lambda_0 = 32.5 \text{ cm}$$

$$\lambda_{\text{end}} = 0.5\lambda$$

$$N = 4 \text{ turns}$$



Initial  $P_{x,0}$  vs  $x/\lambda_0$  (Und. period change position)



The slide is added after the group meeting (on Aug-28)

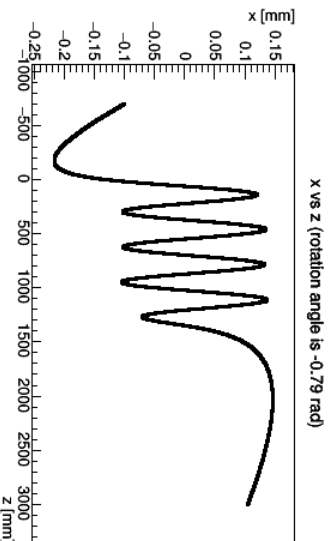
$$X = 27/64\lambda$$

$$P_{X,0} = -0.31 \text{ MeV}$$

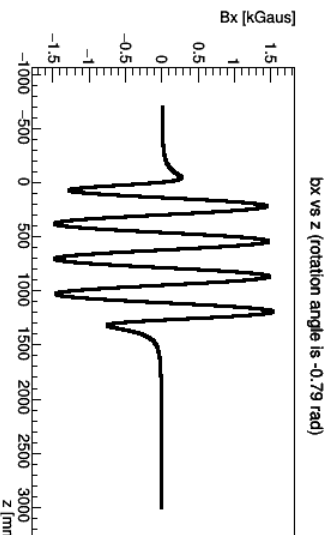
$$\lambda_0 = 32.5 \text{ cm}$$

$$\lambda_{\text{end}} = 0.5 * \lambda$$

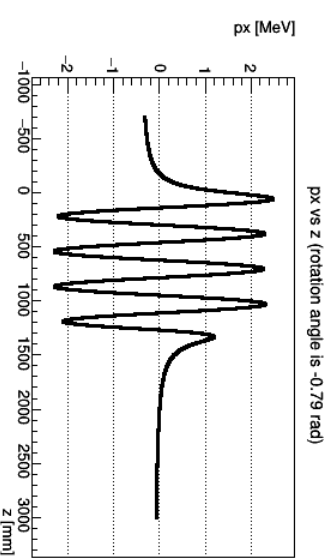
$$N = 4 \text{ turns}$$



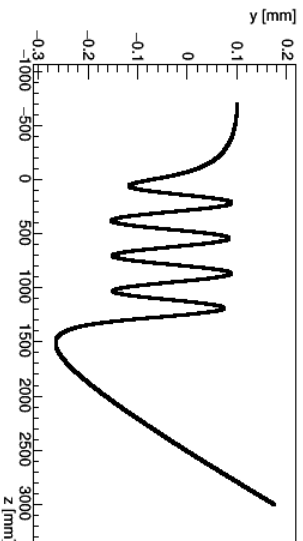
x vs z (rotation angle is -0.79 rad)



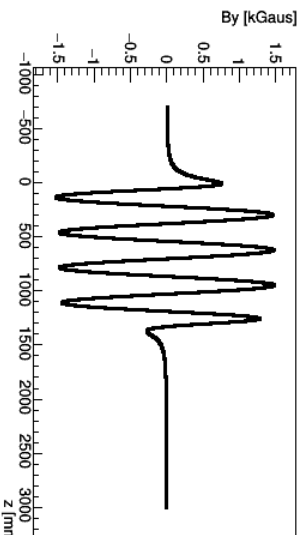
Bx vs z (rotation angle is -0.79 rad)



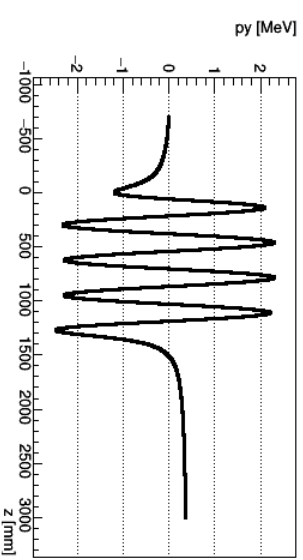
px vs z (rotation angle is -0.79 rad)



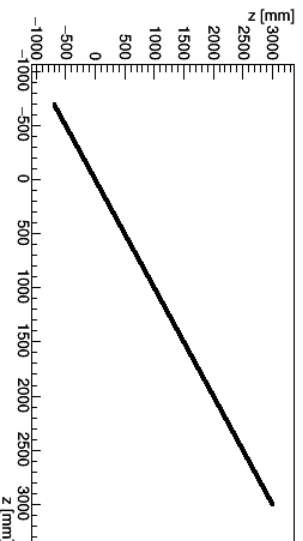
y vs z (rotation angle is -0.79 rad)



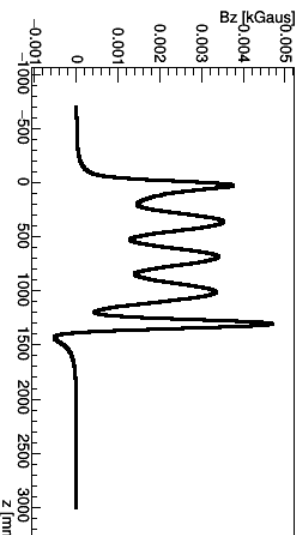
By vs z (rotation angle is -0.79 rad)



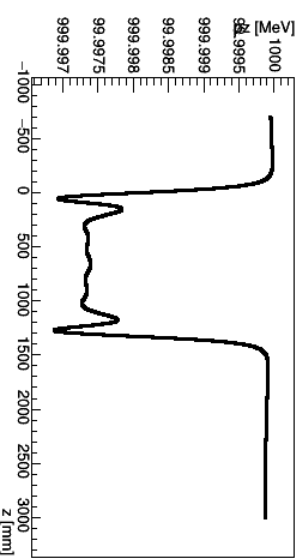
py vs z (rotation angle is -0.79 rad)



z vs z (rotation angle is -0.79 rad)



Bz vs z (rotation angle is -0.79 rad)



pz vs z (rotation angle is -0.79 rad)

The slide is added after the group meeting (on Aug-28)