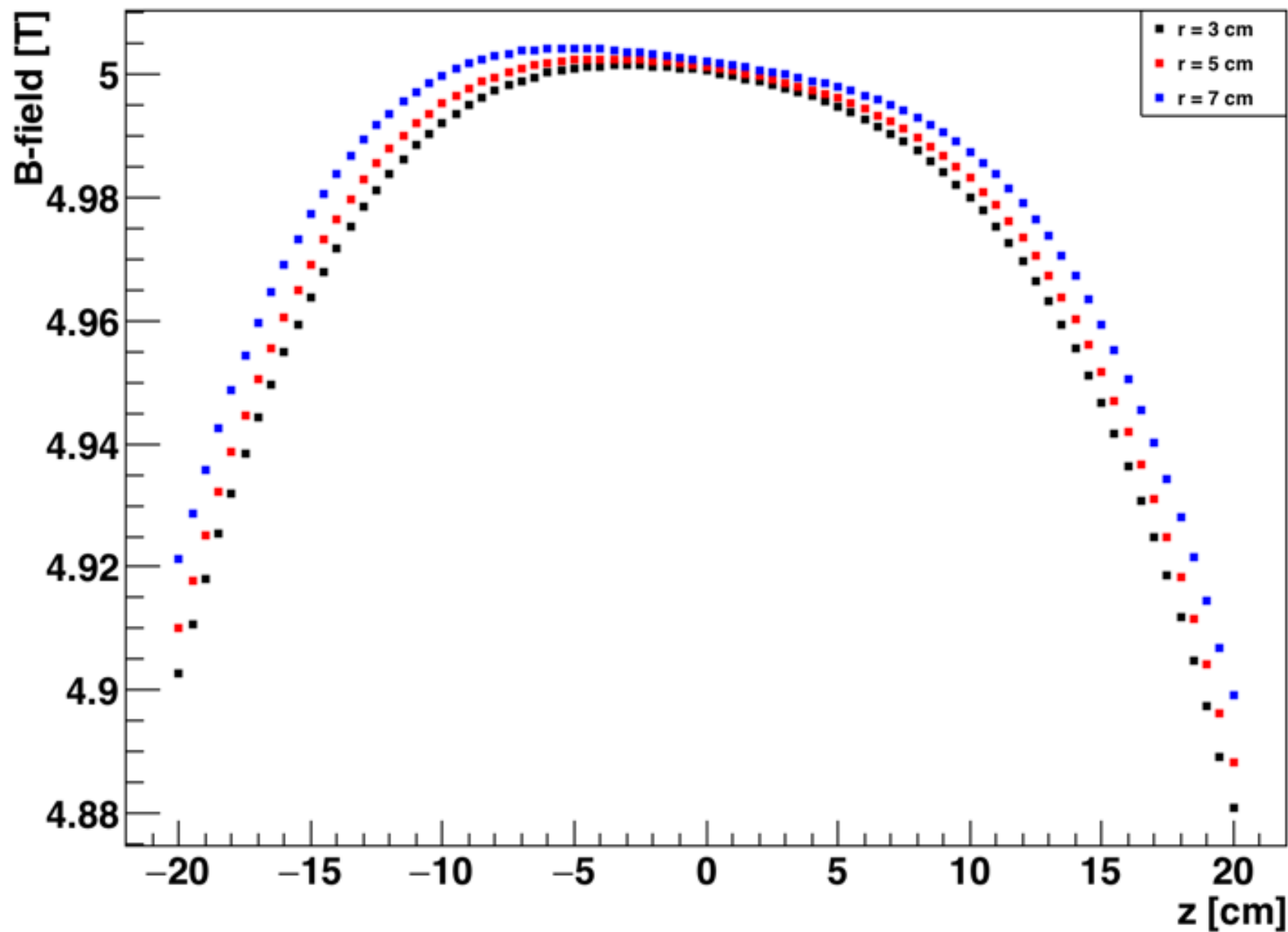
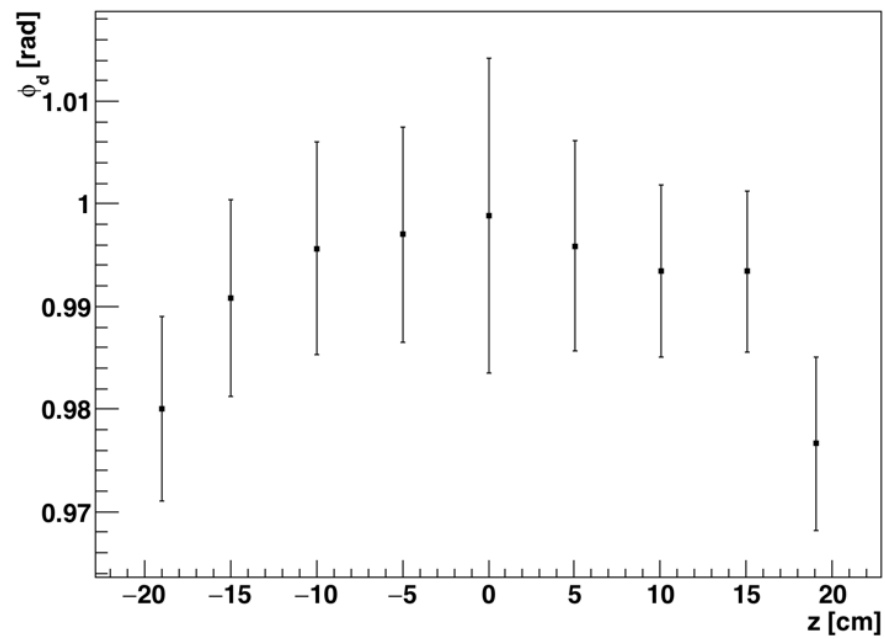
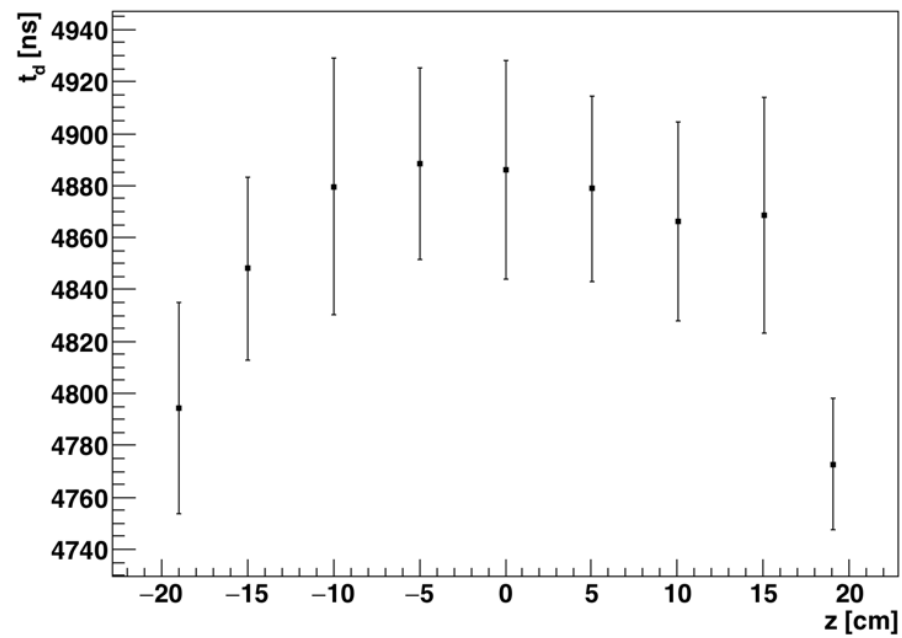


B-field vs z

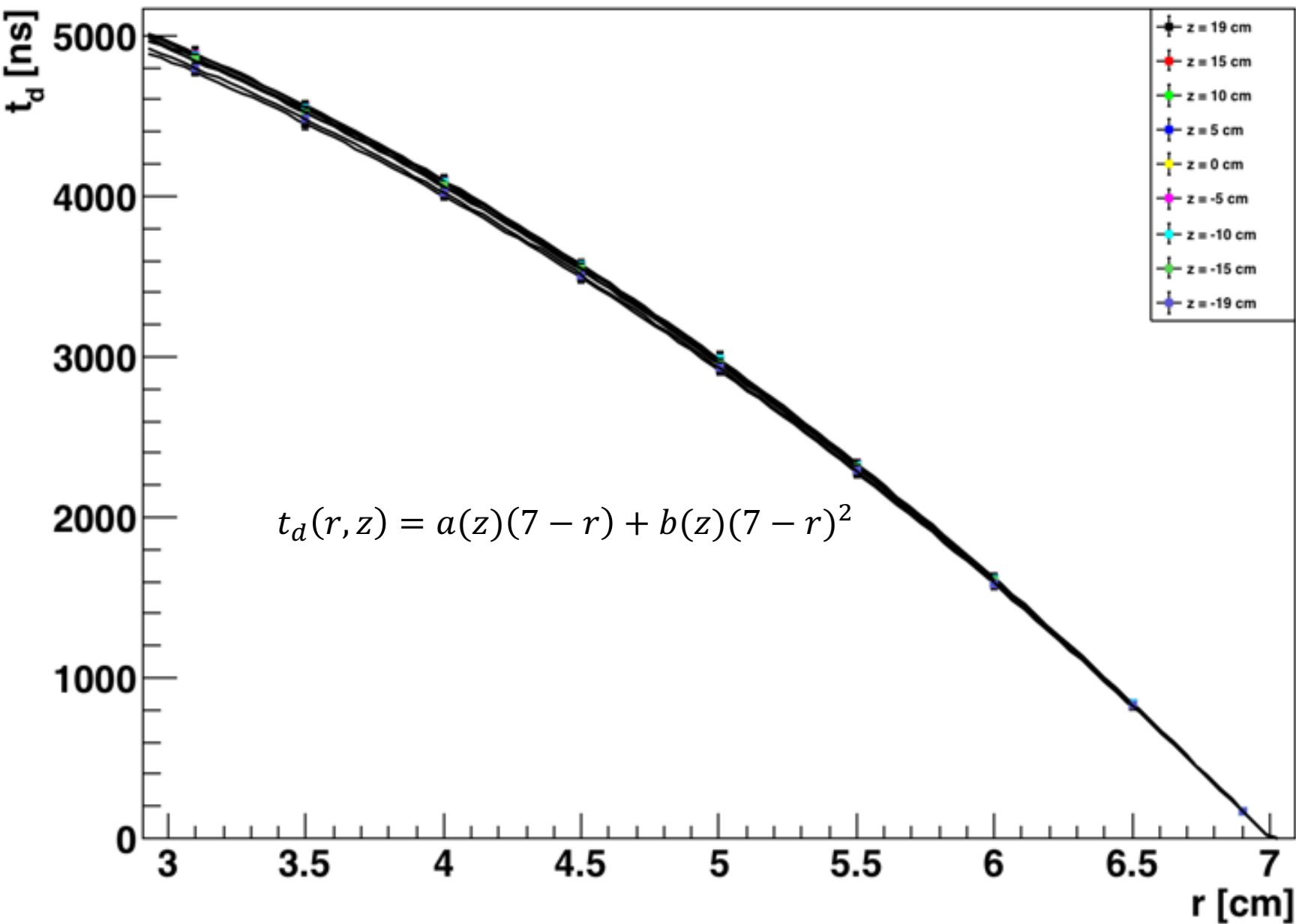


For  $r = 3$  cm

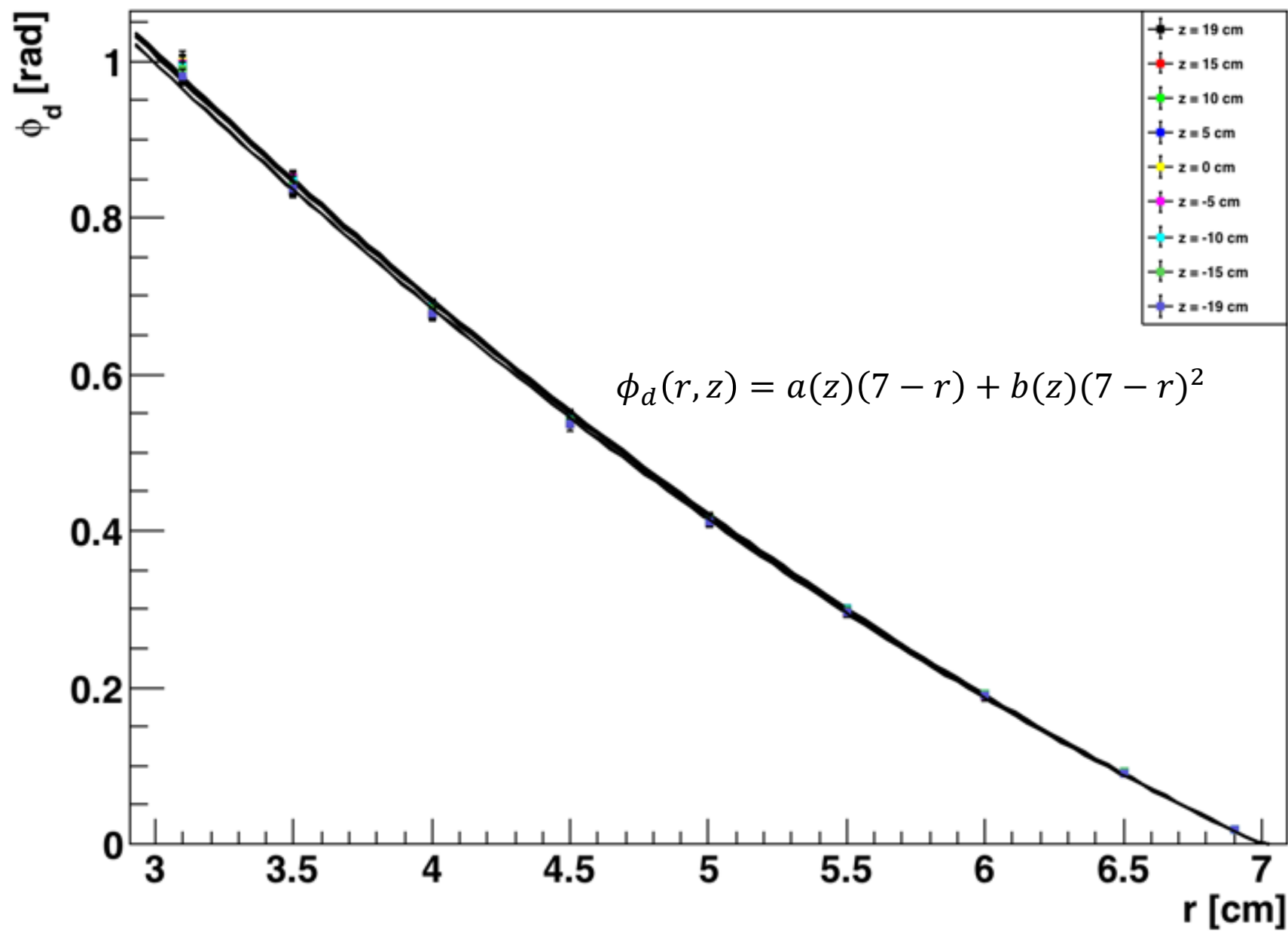
$t_d$  vs  $z$

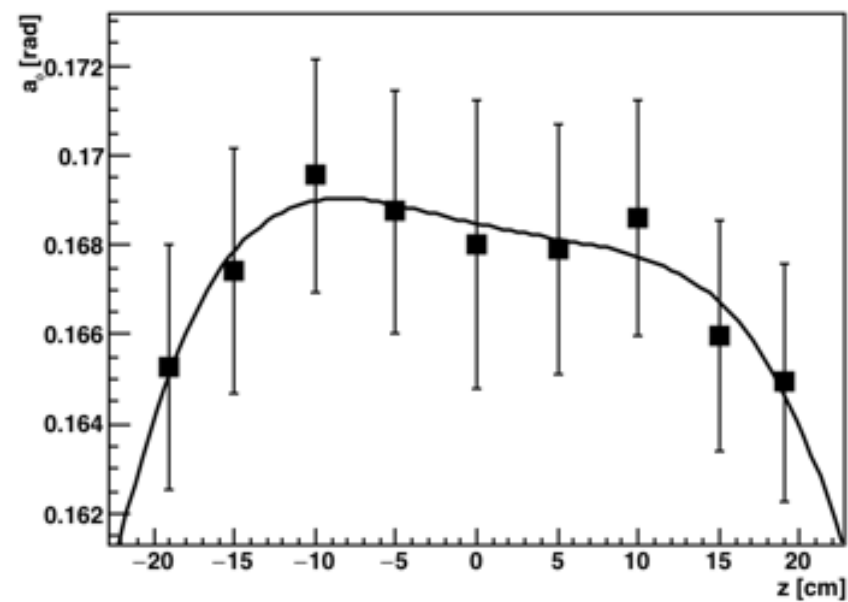
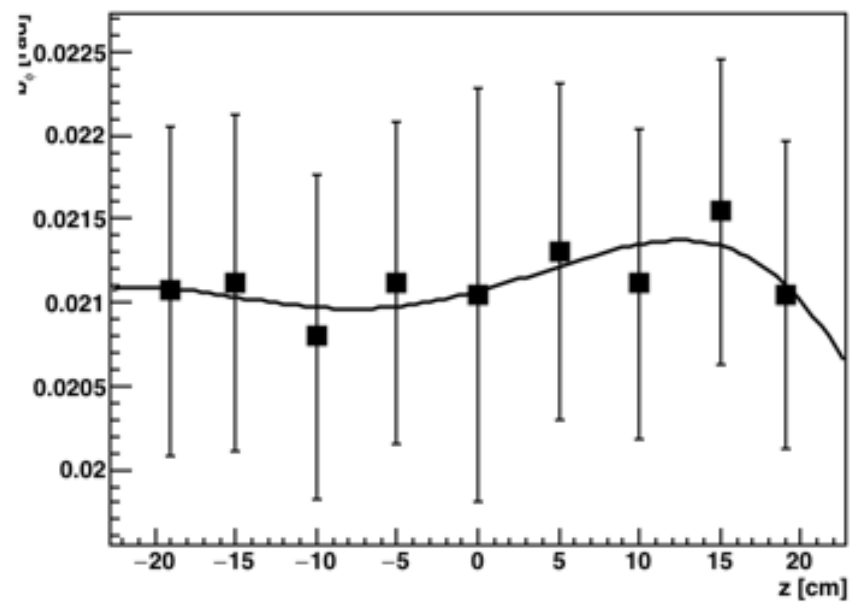
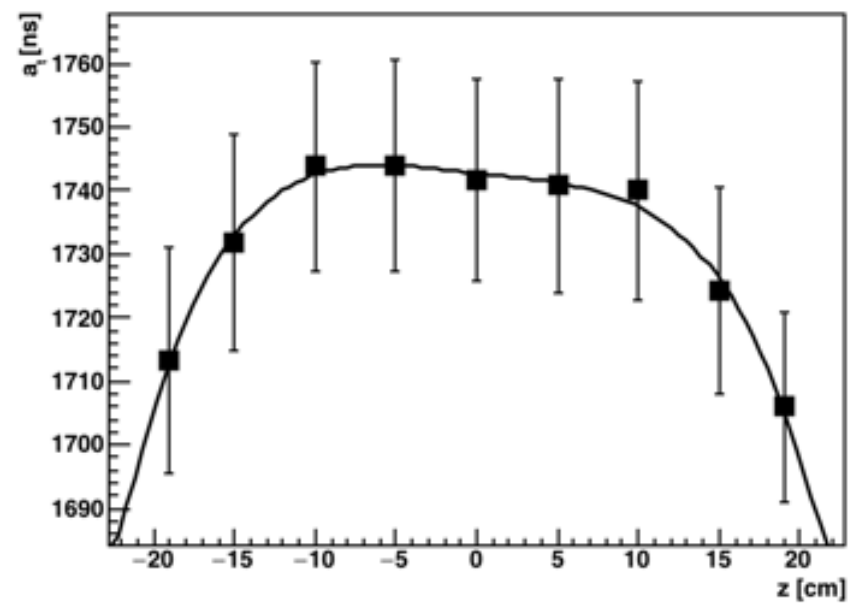
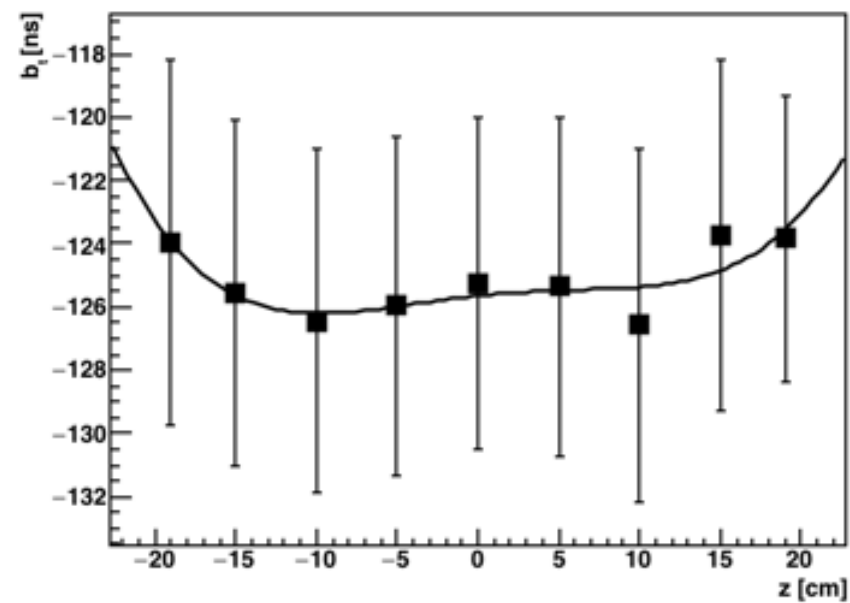


$t_d$  vs  $r$



$\phi_d$  VS  $r$



**$a_\phi$  vs  $z$**  **$b_\phi$  vs  $z$**  **$a_t$  vs  $z$**  **$b_t$  vs  $z$** 

$$a_{\phi}(z) = a_{\phi 0}z^4 + a_{\phi 1}z^3 + a_{\phi 2}z^2 + a_{\phi 3}z + a_{\phi 4} \quad b_{\phi}(z) = b_{\phi 0}z^4 + b_{\phi 1}z^3 + b_{\phi 2}z^2 + b_{\phi 3}z + b_{\phi 4}$$

$$a_{\phi 0} = -3.32718\text{e-}08$$

$$a_{\phi 1} = 1.92110\text{e-}07$$

$$a_{\phi 2} = 2.16919\text{e-}06$$

$$a_{\phi 3} = -8.10207\text{e-}05$$

$$a_{\phi 4} = 1.68481\text{e-}01$$

$$b_{\phi 0} = -3.23019\text{e-}09$$

$$b_{\phi 1} = -6.92075\text{e-}08$$

$$b_{\phi 2} = 1.24731\text{e-}06$$

$$b_{\phi 3} = 2.57684\text{e-}05$$

$$b_{\phi 4} = 2.10680\text{e-}02$$

$$a_t(z) = a_{t 0}z^4 + a_{t 1}z^3 + a_{t 2}z^2 + a_{t 3}z + a_{t 4}$$

$$b_t(z) = b_{t 0}z^4 + b_{t 1}z^3 + b_{t 2}z^2 + b_{t 3}z + b_{t 4}$$

$$a_{t 0} = -2.48491\text{e-}04$$

$$a_{t 1} = 2.21413\text{e-}04$$

$$a_{t 2} = -3.11195\text{e-}03$$

$$a_{t 3} = -2.75206\text{e-}01$$

$$a_{t 4} = 1.74281\text{e+}03$$

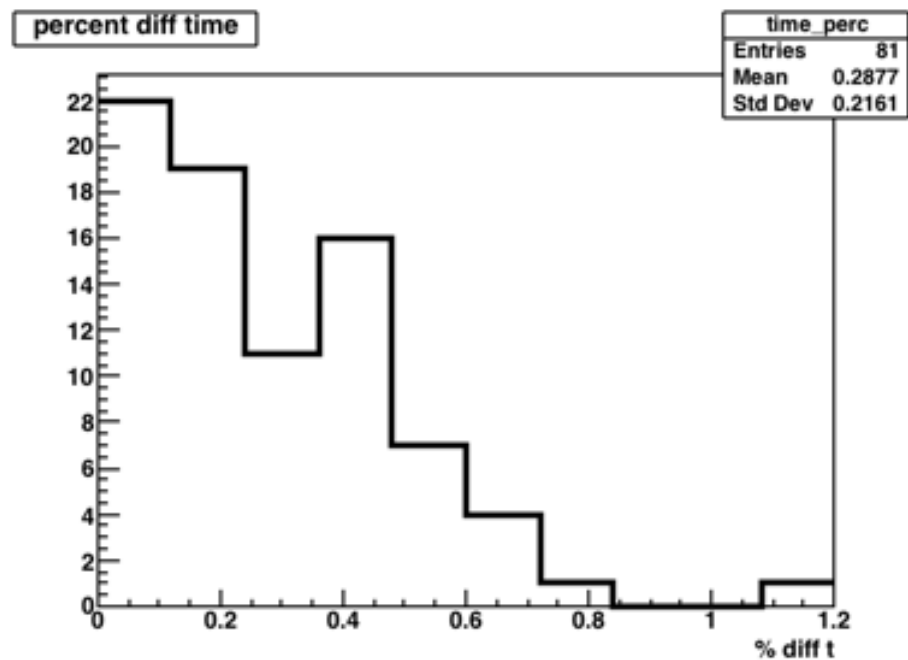
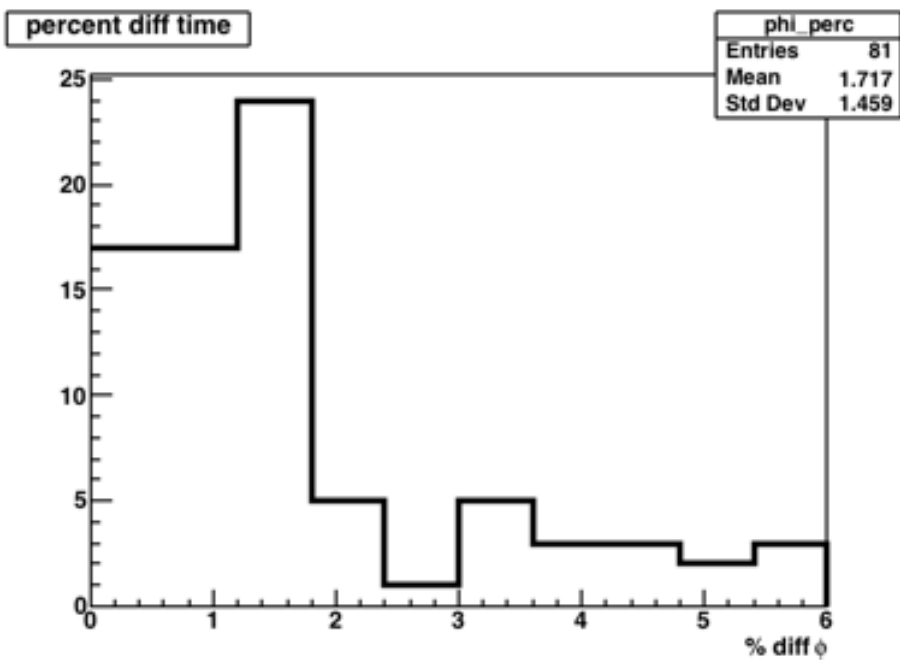
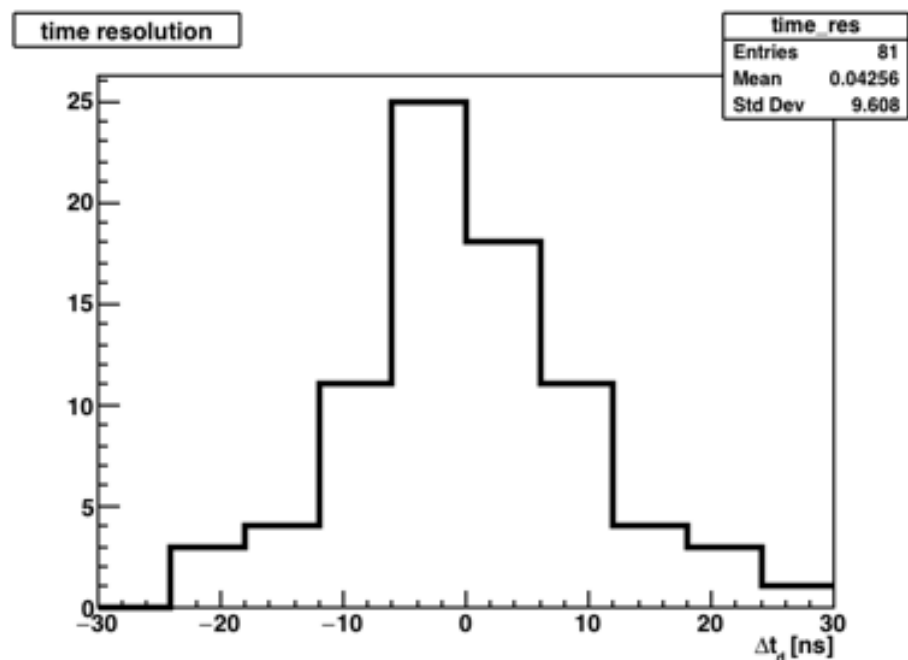
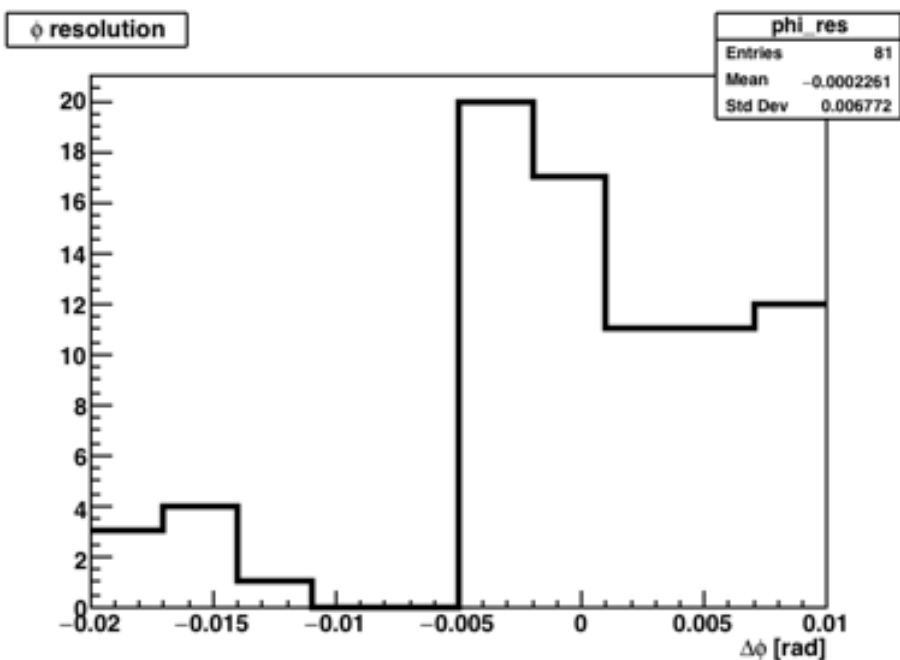
$$b_{t 0} = 2.48873\text{e-}05$$

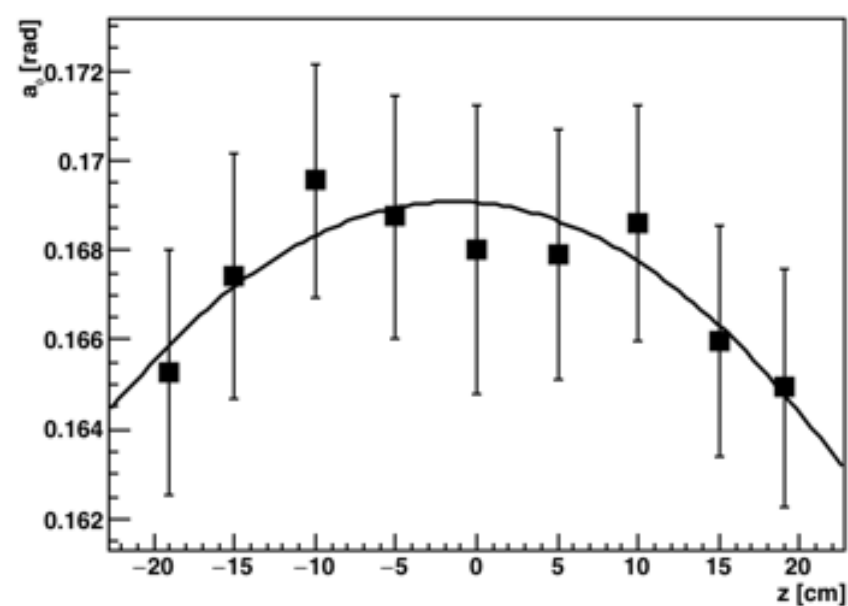
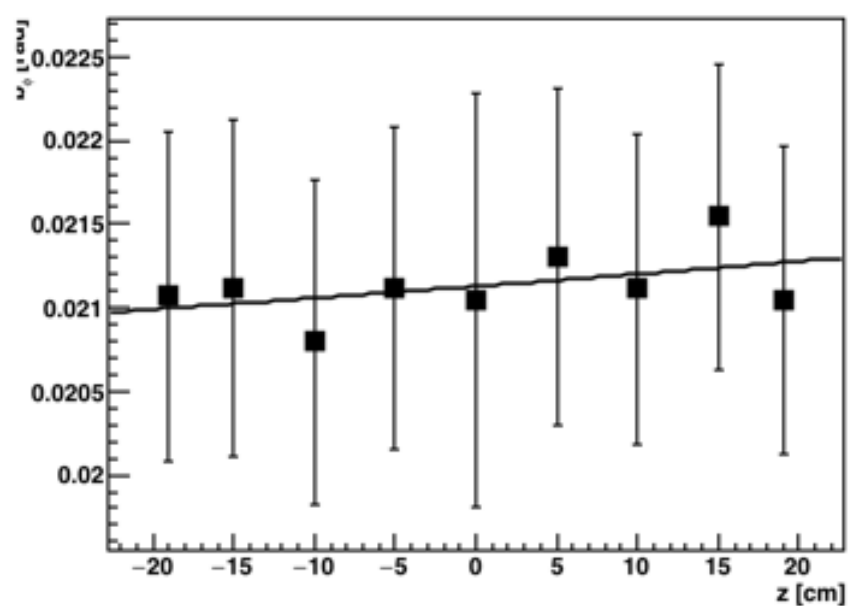
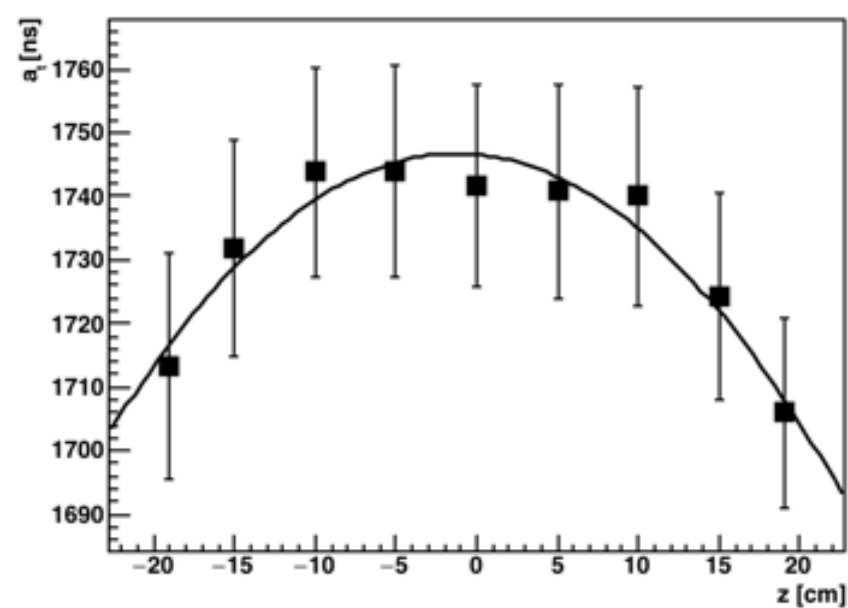
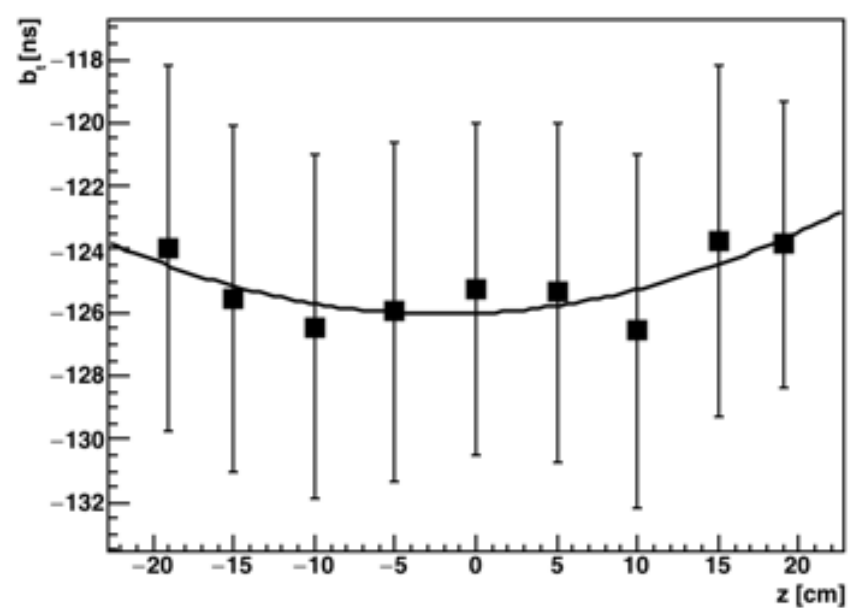
$$b_{t 1} = -1.19976\text{e-}04$$

$$b_{t 2} = -3.75962\text{e-}03$$

$$b_{t 3} = 5.33100\text{e-}02$$

$$b_{t 4} = -1.25647\text{e+}02$$



**$a_0$  vs  $z$**  **$b_0$  vs  $z$**  **$a_1$  vs  $z$**  **$b_1$  vs  $z$** 



$$a_{\phi}(z) = a_{\phi 0}z^2 + a_{\phi 1}z + a_{\phi 2}$$

$$a_{\phi 0} = -1.02830\text{e-}05$$

$$a_{\phi 1} = -2.89840\text{e-}05$$

$$a_{\phi 2} = 1.69062\text{e-}01$$

$$b_{\phi}(z) = b_{\phi 0}z^2 + b_{\phi 1}z + b_{\phi 2}$$

$$b_{\phi 0} = 1.43595\text{e-}08$$

$$b_{\phi 1} = 7.15132\text{e-}06$$

$$b_{\phi 2} = 1.24731\text{e-}06$$

$$a_t(z) = a_{t 0}z^2 + a_{t 1}z + a_{t 2}$$

$$a_{t 0} = -9.44909\text{e-}02$$

$$a_{t 1} = -2.27659\text{e-}01$$

$$a_{t 2} = 1.74659\text{e+}03$$

$$b_t(z) = b_{t 0}z^2 + b_{t 1}z + b_{t 2}$$

$$b_{t 0} = 5.34421\text{e-}03$$

$$b_{t 1} = 2.25604\text{e-}02$$

$$b_{t 2} = -1.26022\text{e+}02$$

