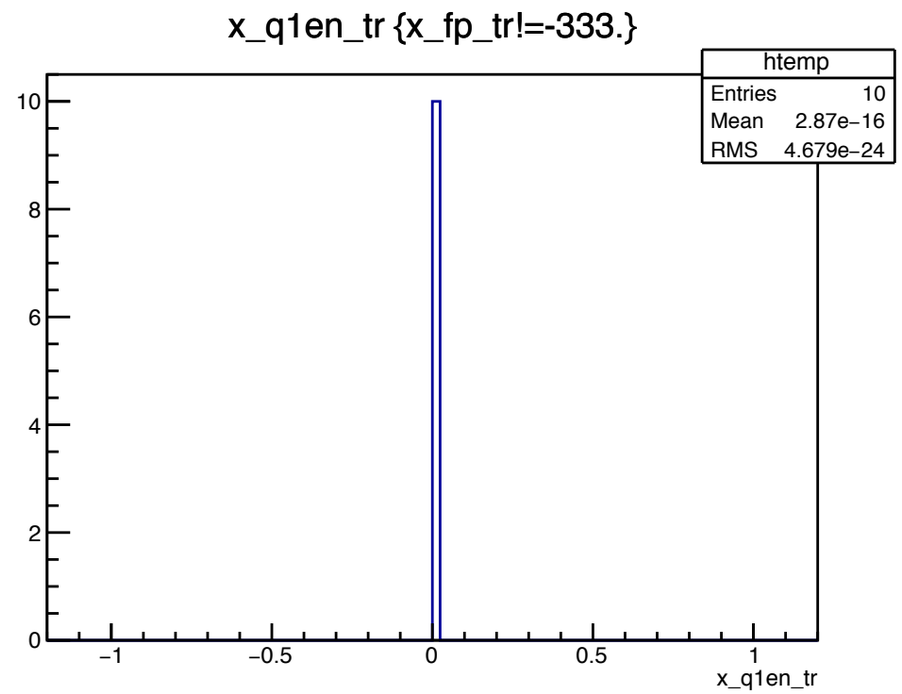
Update on g4hrs

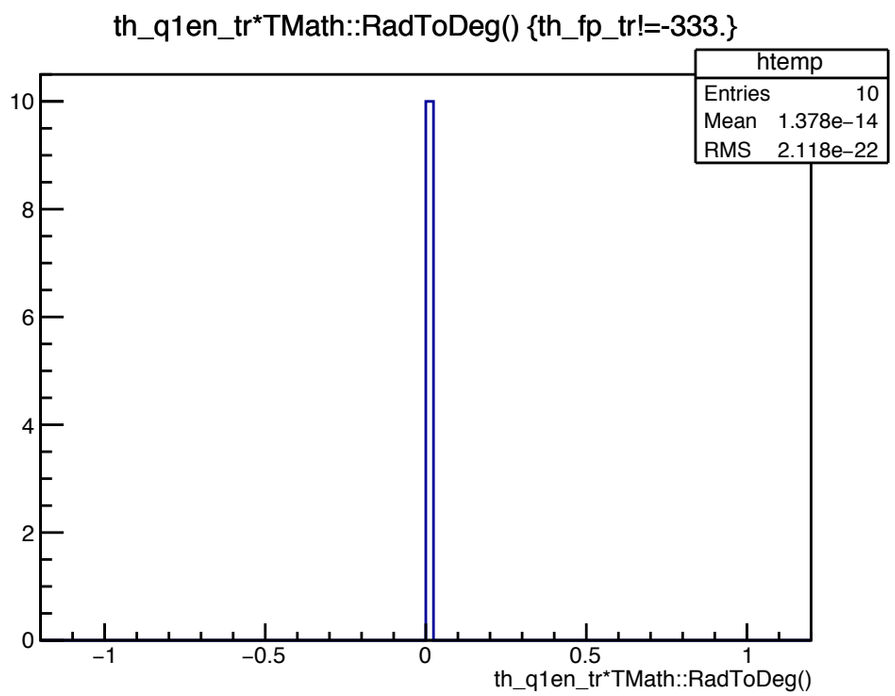
Friday, March 9, 2018

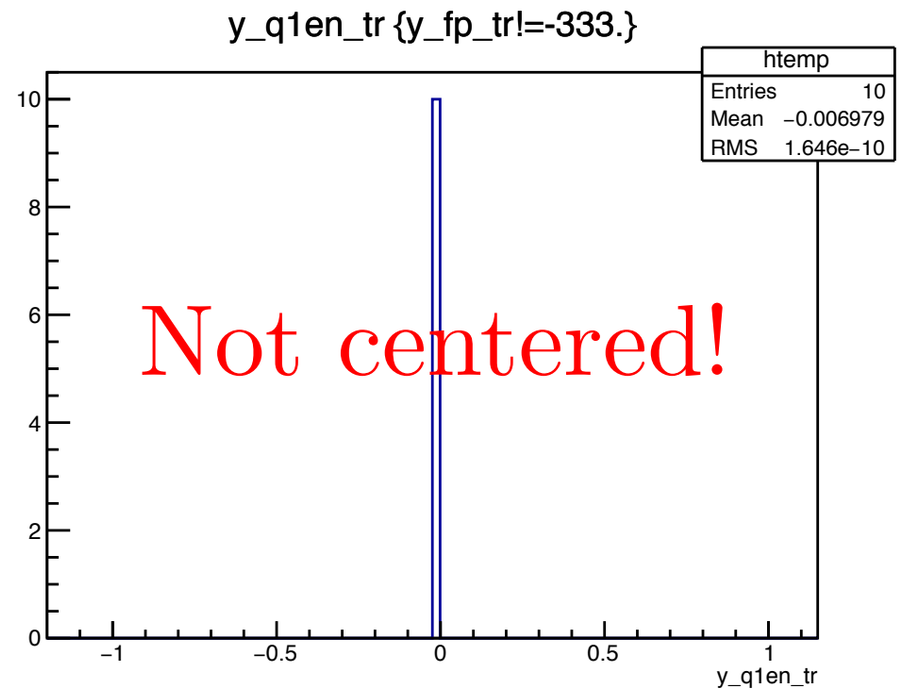
Last week we saw g4hrs quad tune that...

- Minimized $< \mathrm{x} \mid \theta_{\mathrm{tg}} >$ and $< \mathrm{y} \mid \phi_{\mathrm{tg}} >$
- Destroyed focus and shrunk $< \mathrm{x} \mid \delta_{\mathrm{tg}} >$ to less than 1 (incorrect central trajectory?)

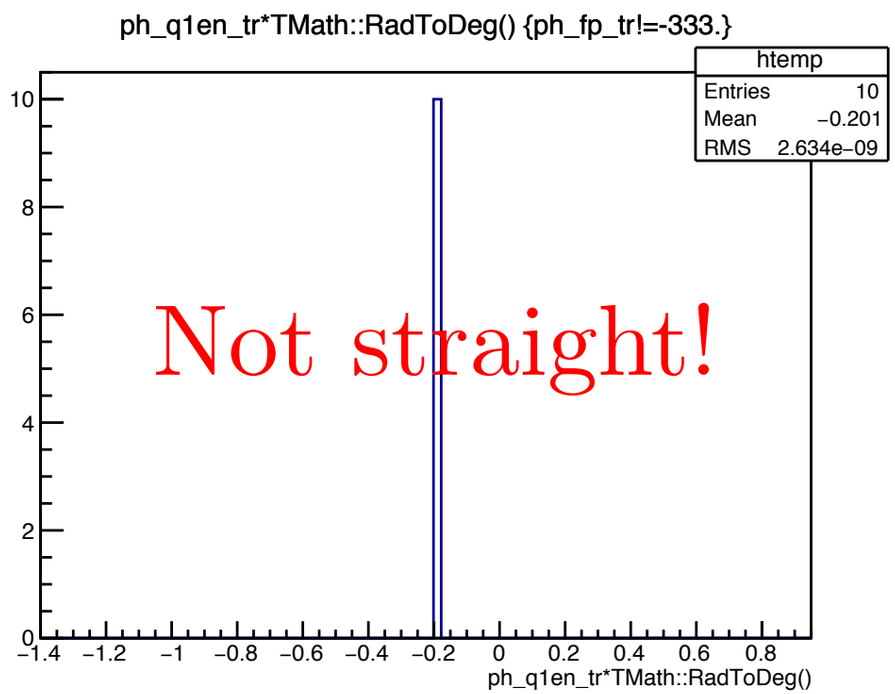
Position/angle of "central ray" at Q1 entrance (from February 16 update)







Not centered!

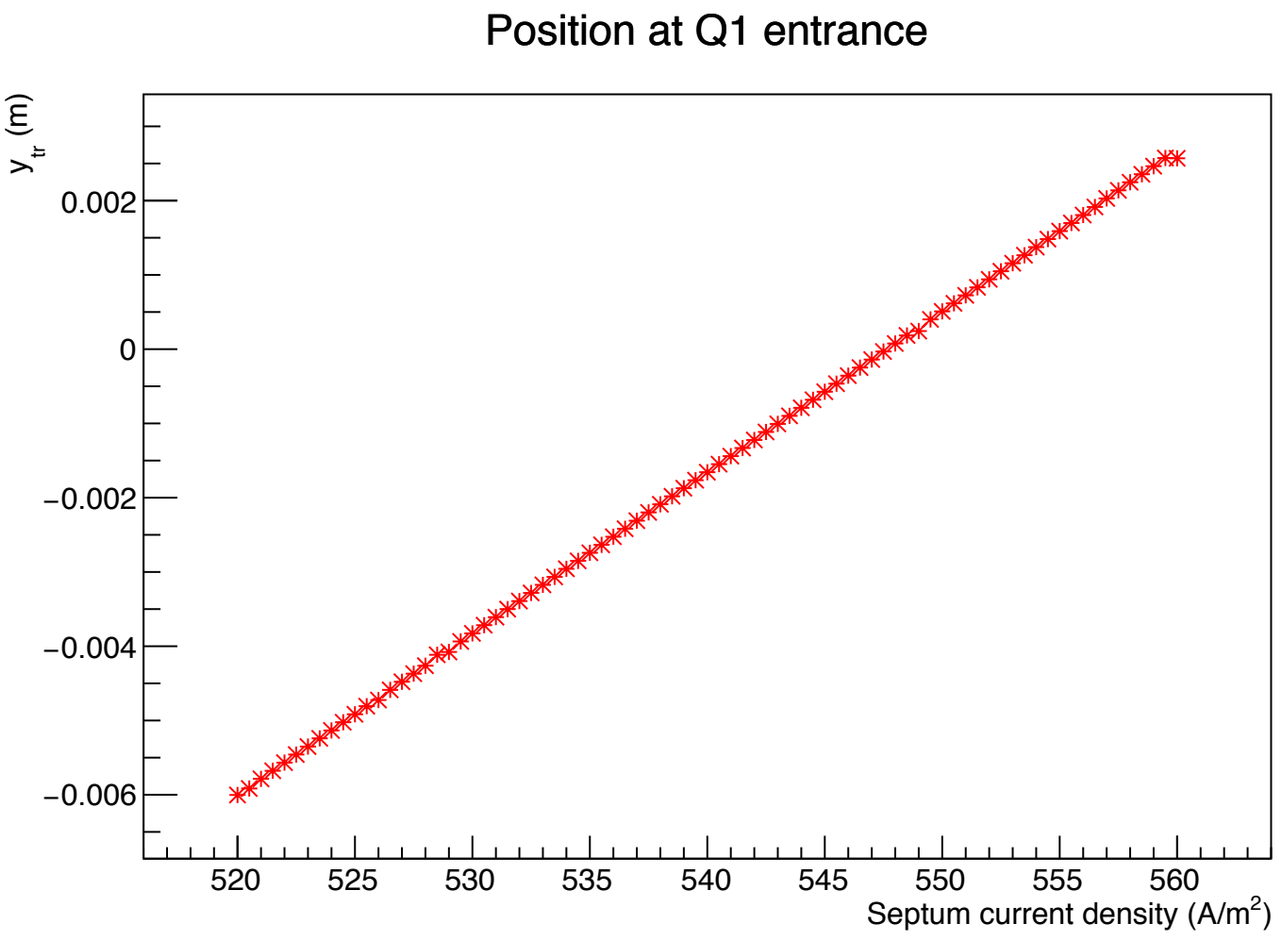


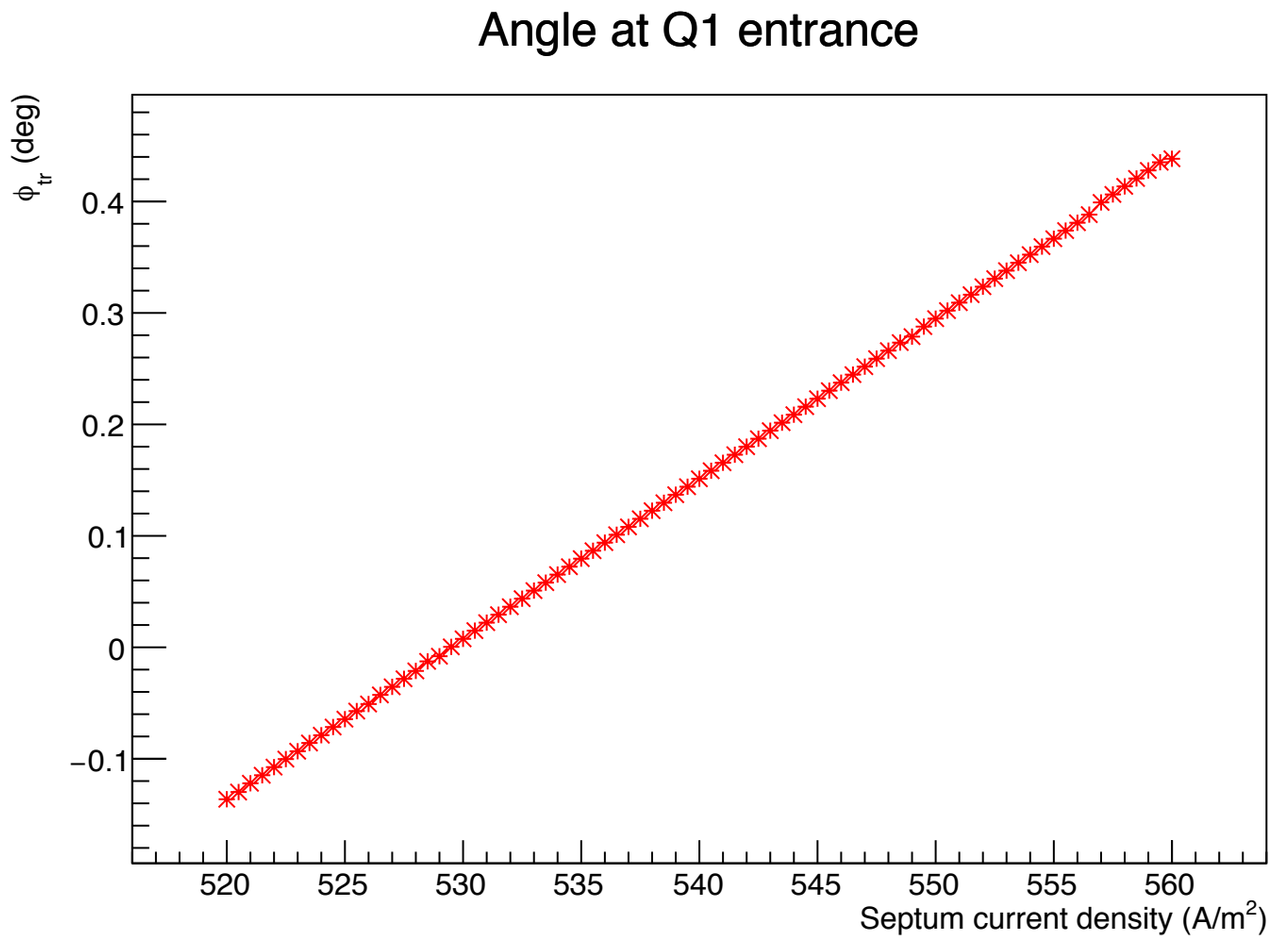
Not straight!

Two approaches:

- Tune septum to minimize (y, ϕ) at Q1 entrance for a 5 degree track
- Tune septum *and* track angle to minimize (y, ϕ)

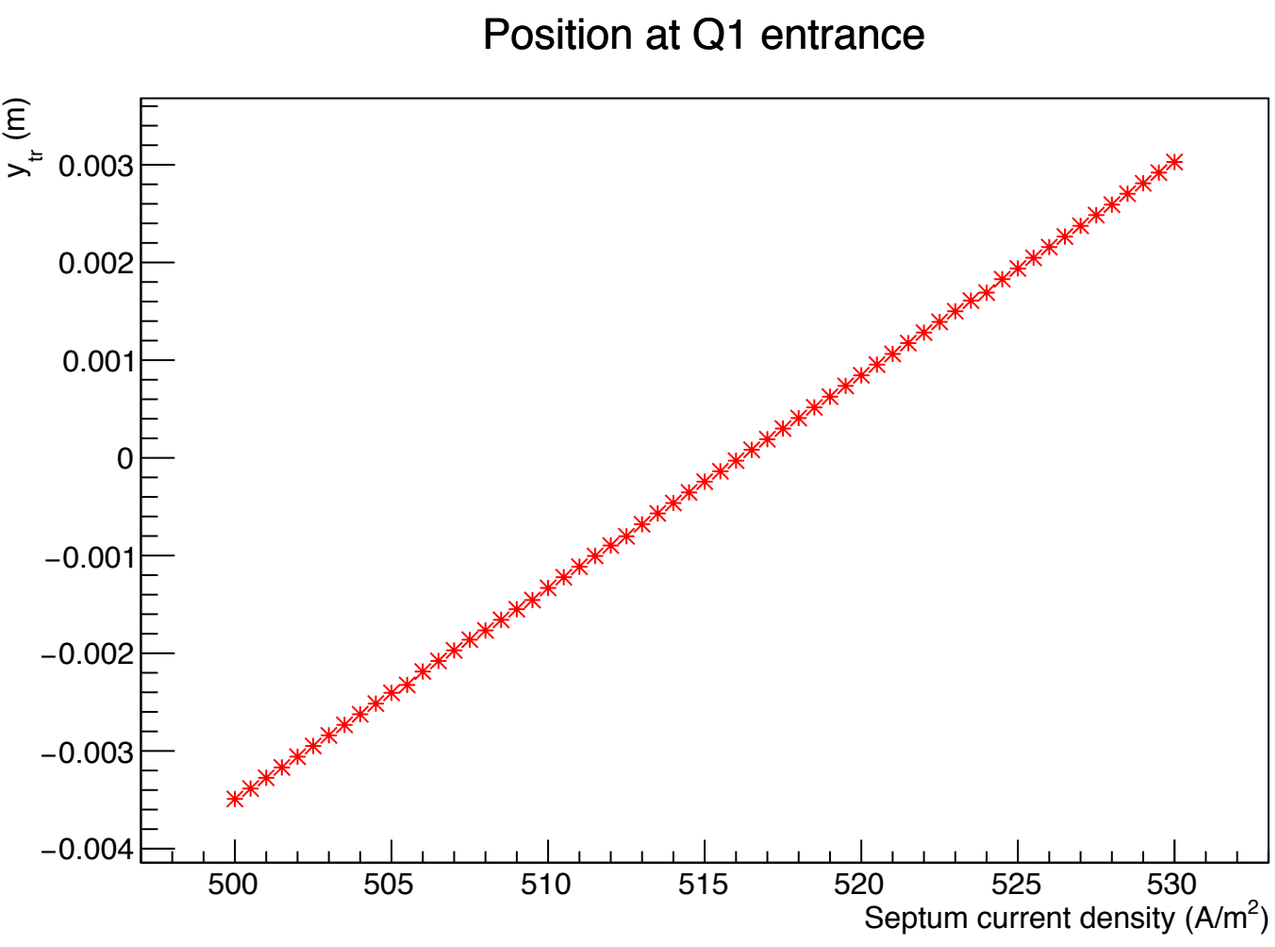
5 degree track

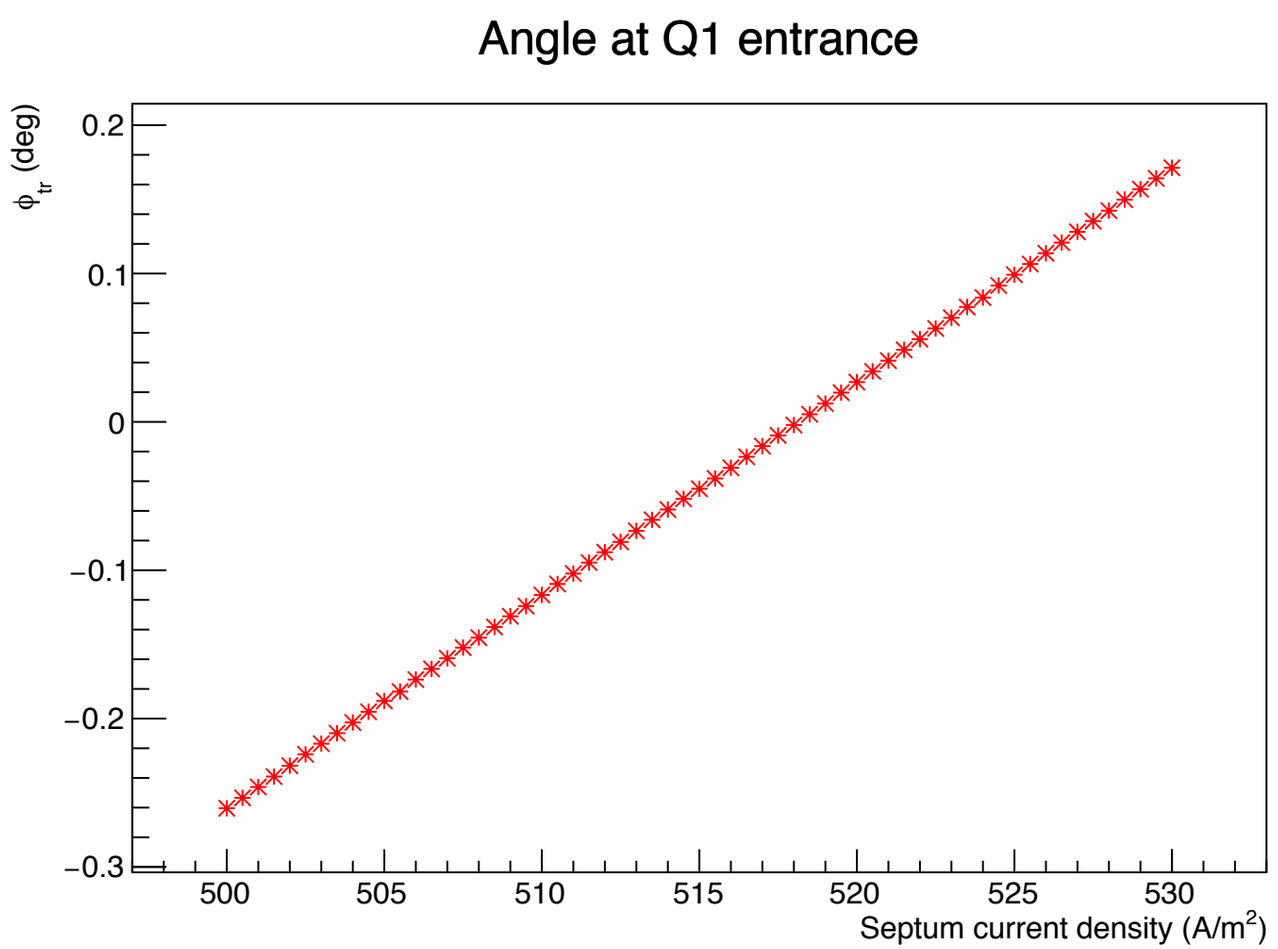




Cross zero at different septum currents

5.13 degree track





Cross zero at the same septum current