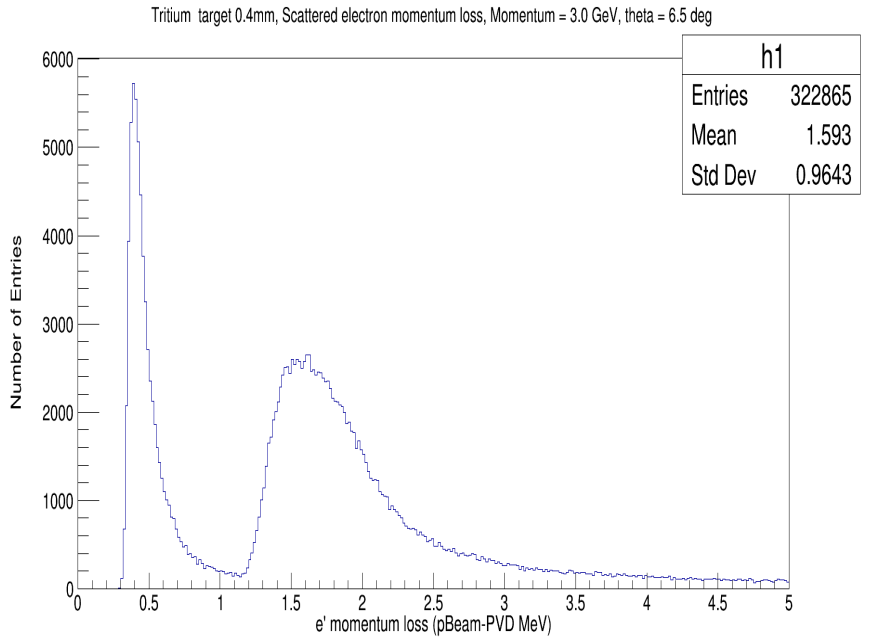
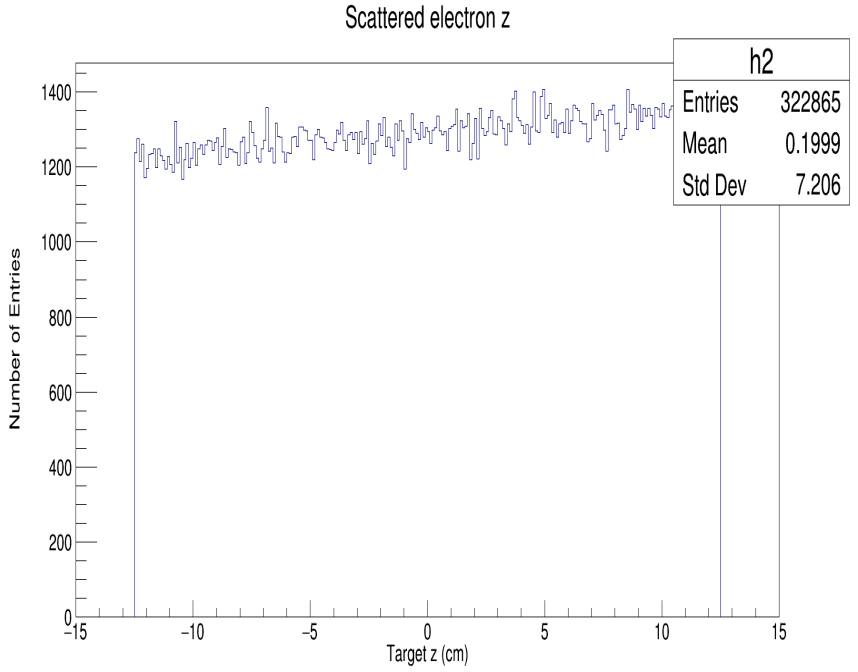
Energy loss (based on c12-19-002)

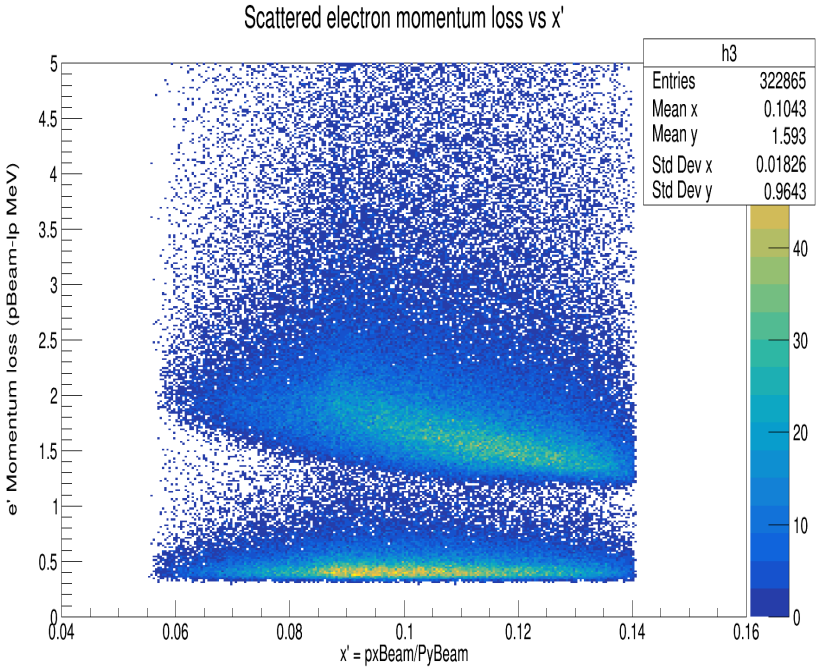
- Changed left arm angle to 6.5 and right arm angle to 12.6
- Changed scattered electron momentum to 3.0 GeV/c (+/- 4.5%) and theta to 6.5 (+/- 1.5) deg
- Changed kaon momentum to 1.2 GeV/c (+/- 10%) and theta to 12.6 (+/- 4.5) deg.

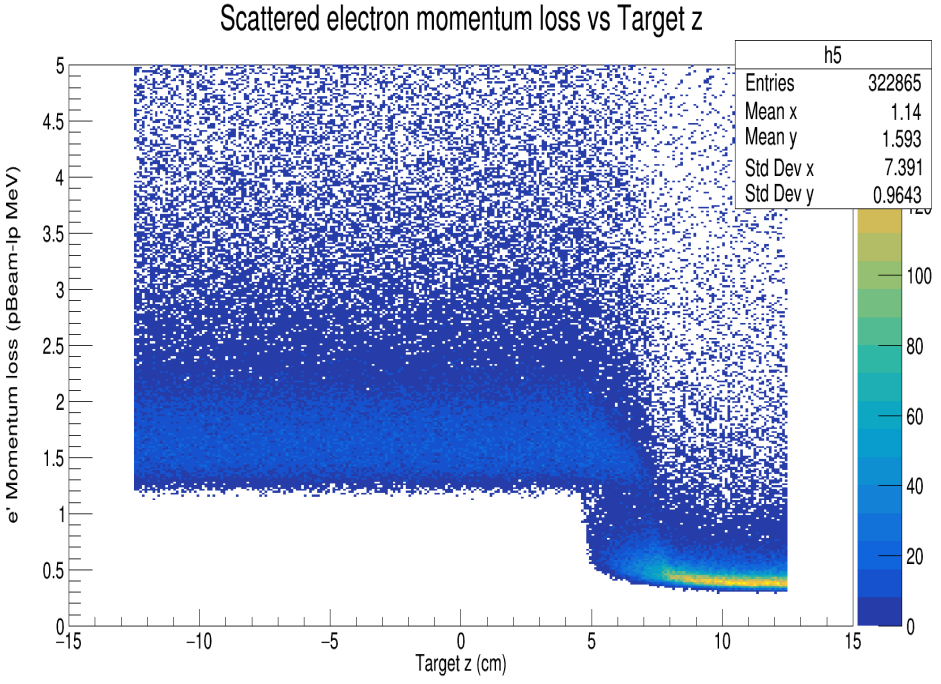
Energy loss electrons before correction



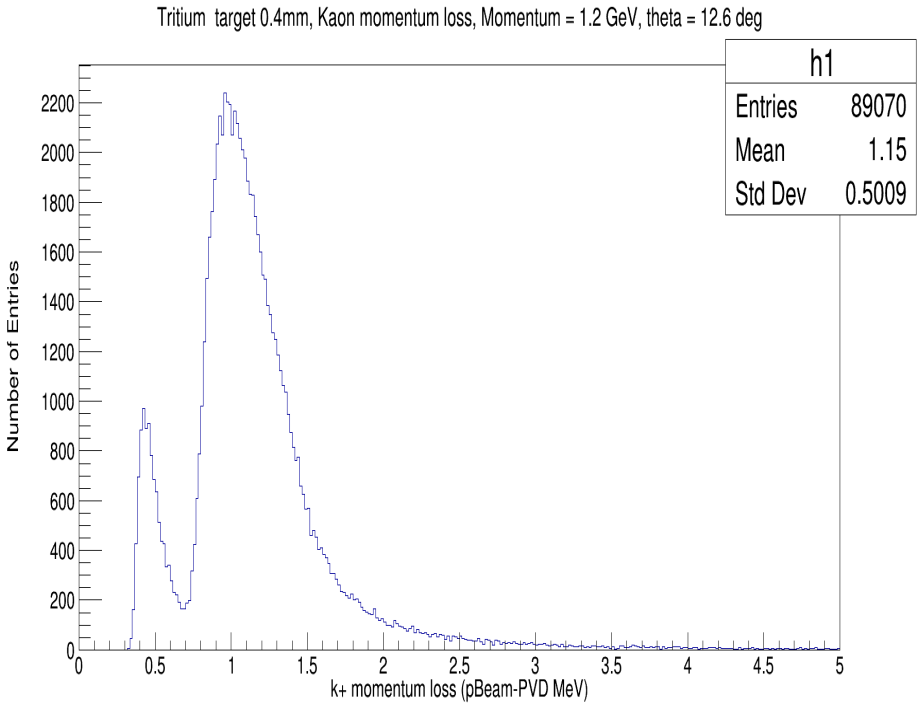


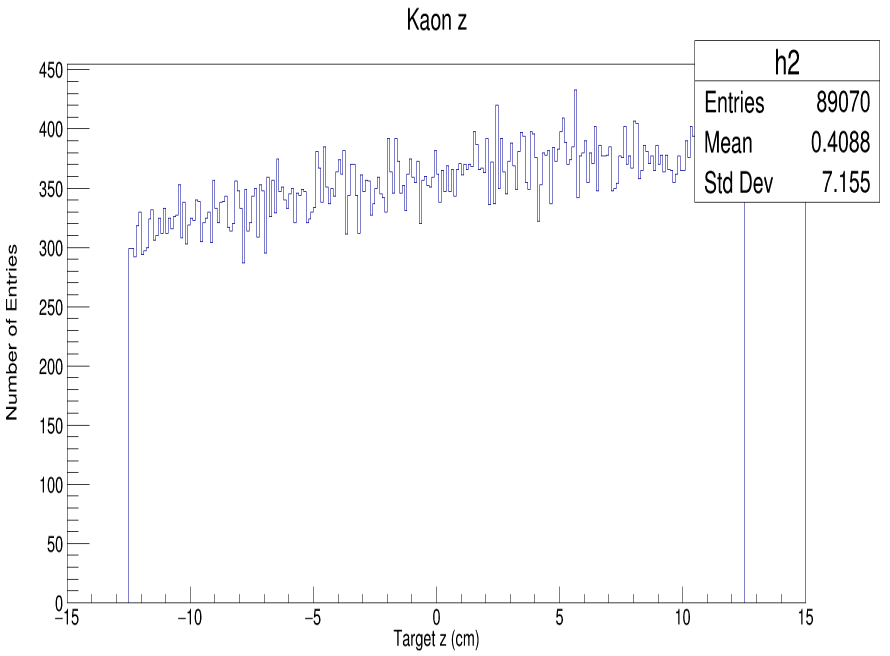
Energy loss electrons before correction



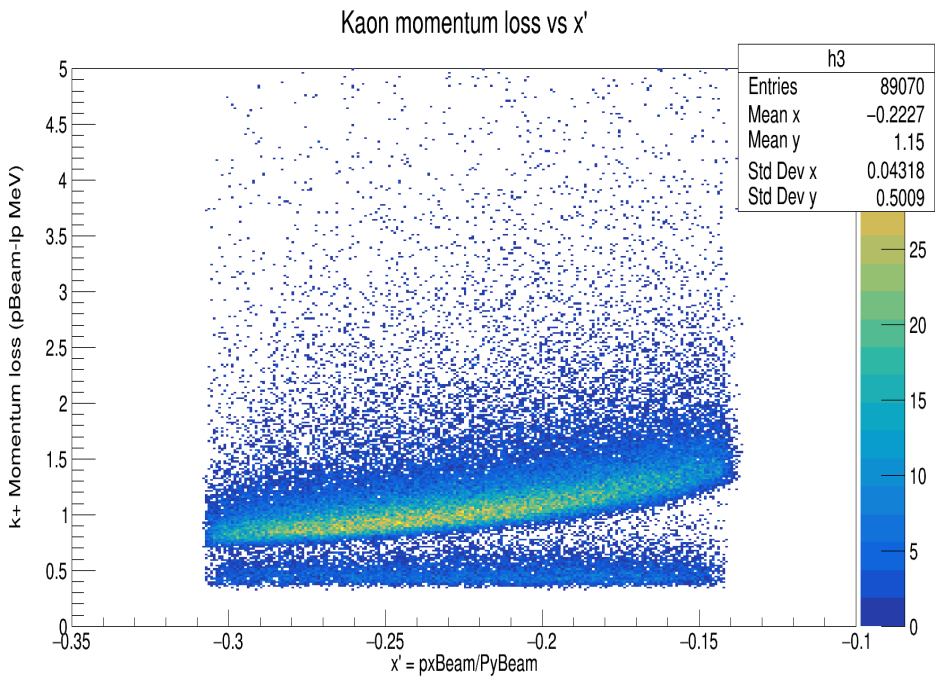


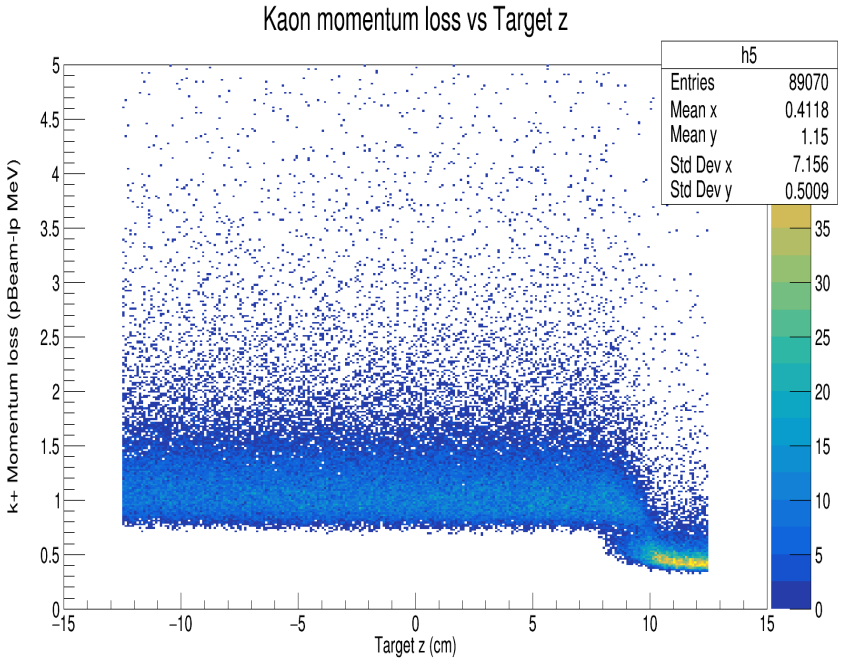
Energy loss kaons before correction



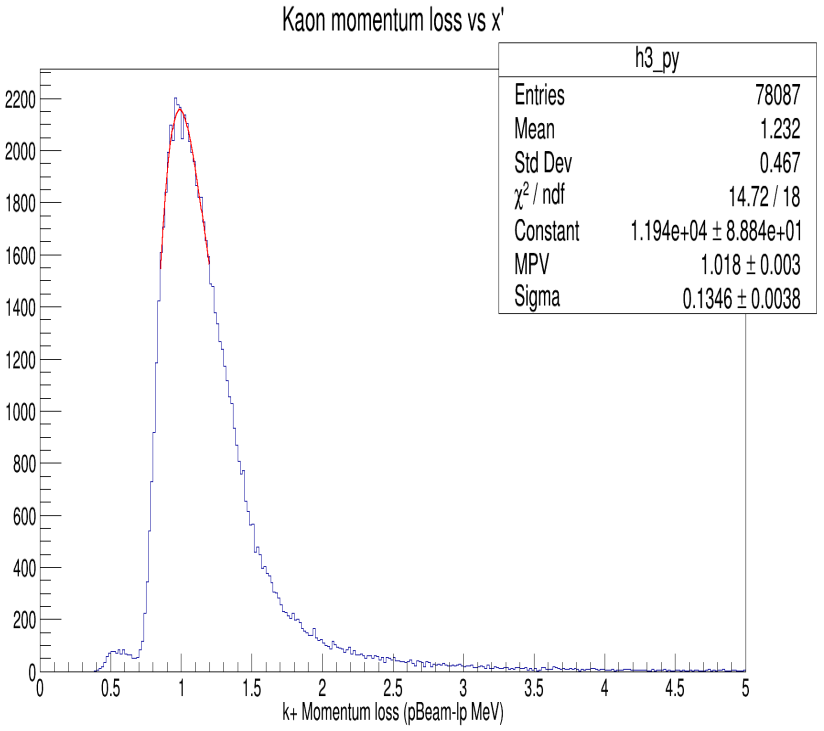


Energy loss kaons before correction

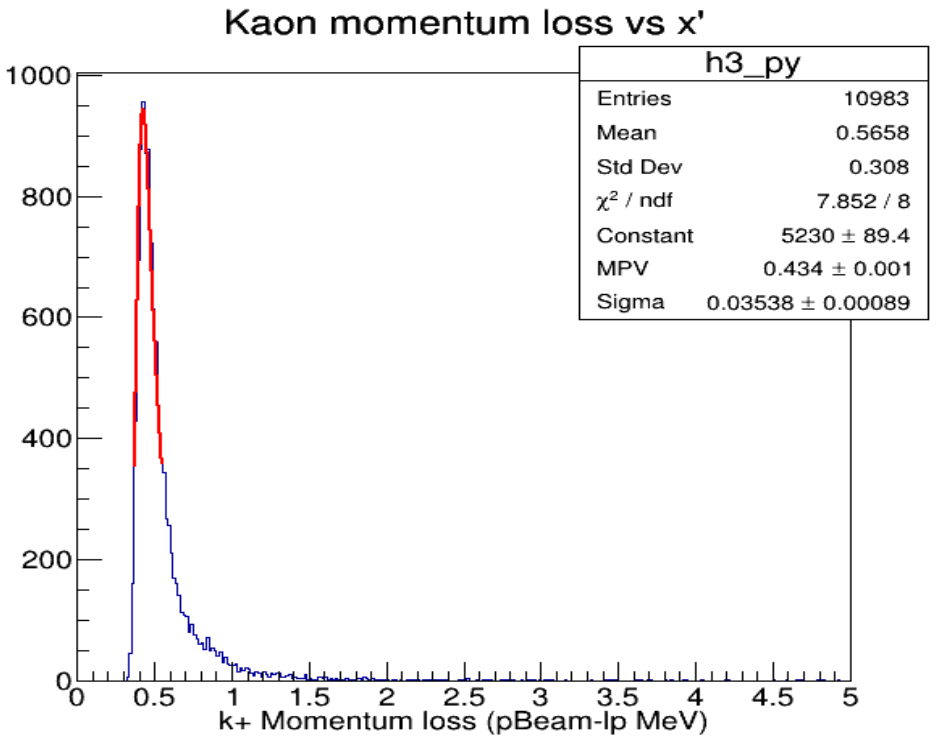




Energy loss kaons before correction

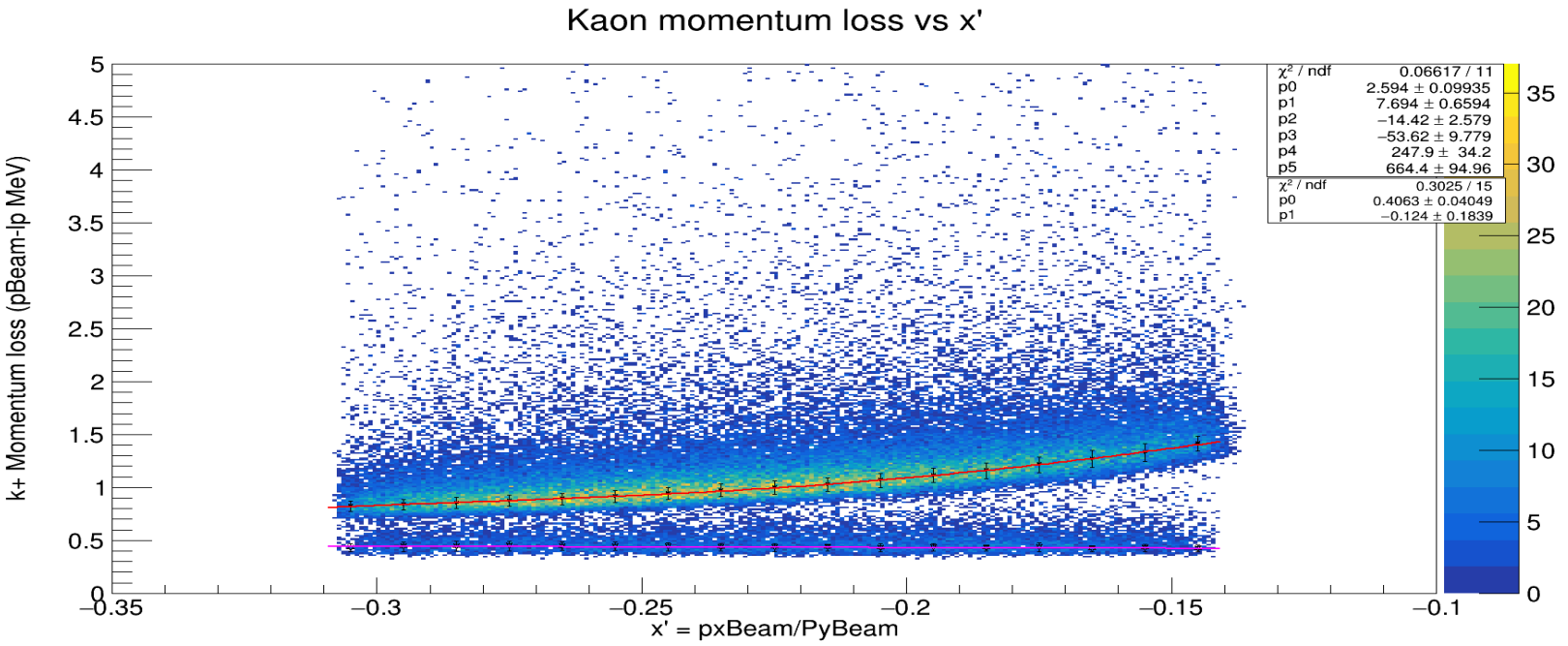


Zbeam < 9.6 cm



Zbeam > 9.6

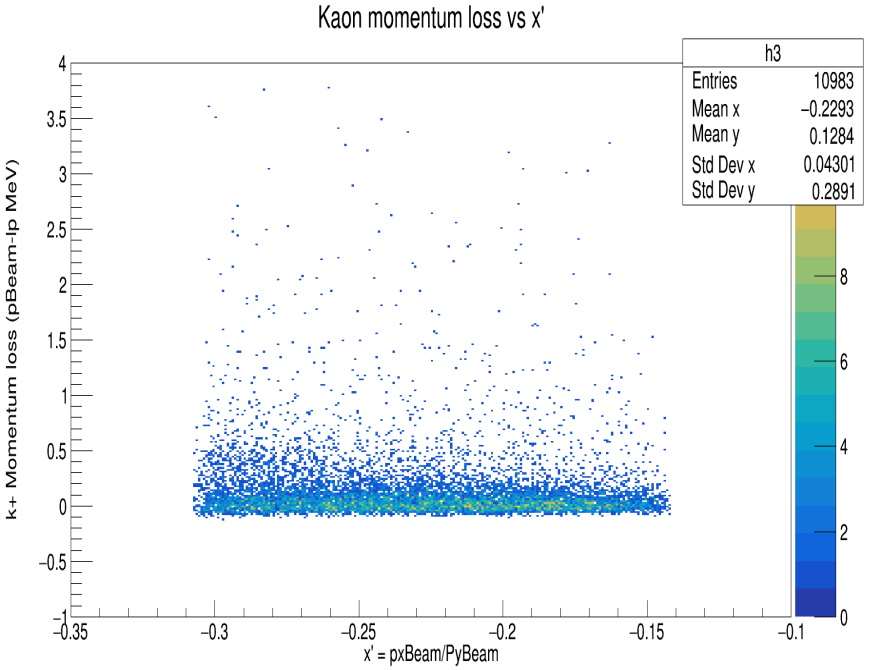
Energy loss kaons fitted

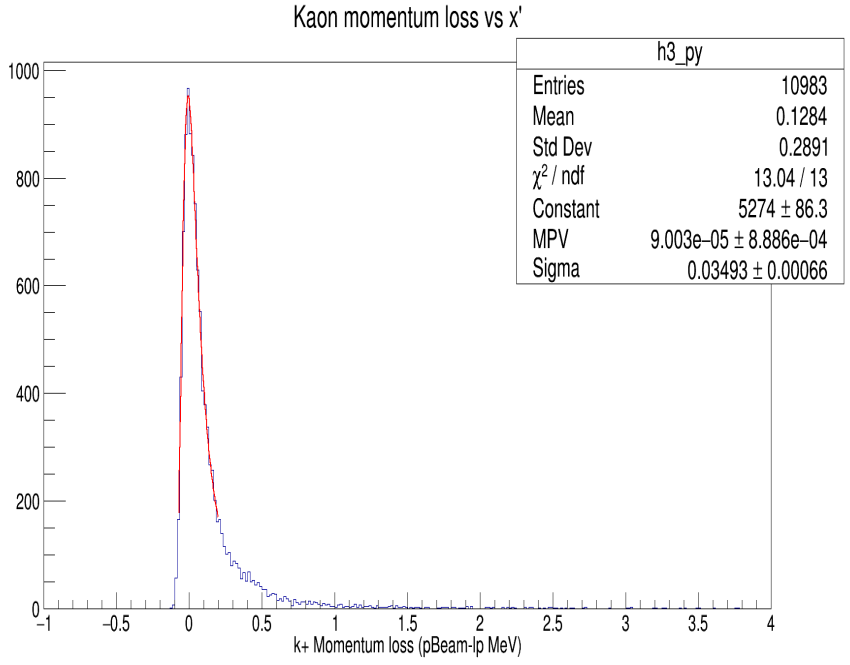


Fit function upper: 2.594 +7.694 * x’ – 14.42 * x’^{2} – 53.62 * x’^{3} +247.9 * x’^{4} + 664.4 * x’^{5}

Fit function lower: 0.4063 – 0.124 * x’

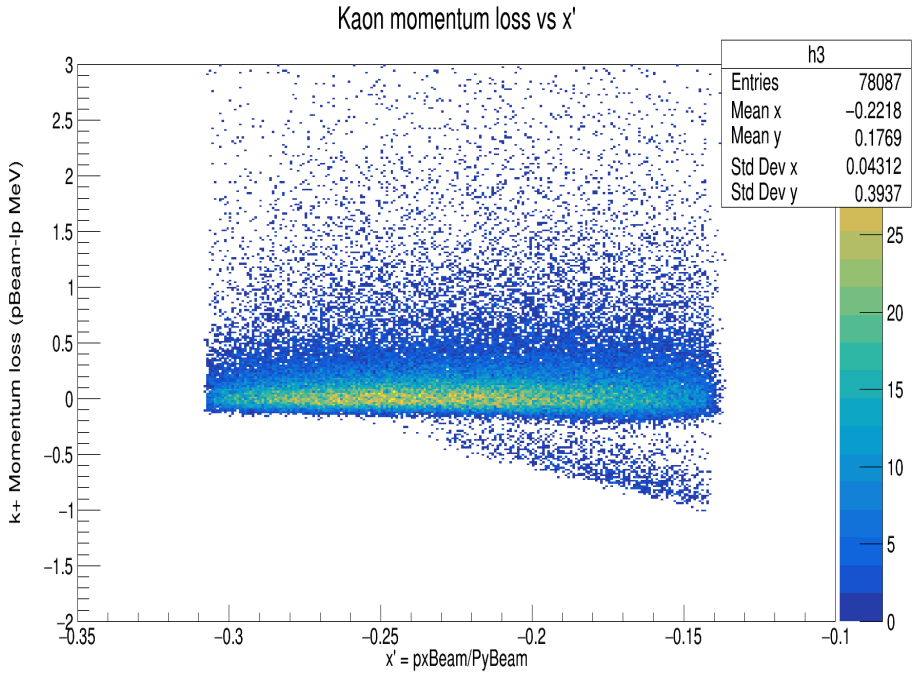
Energy loss kaons after correction

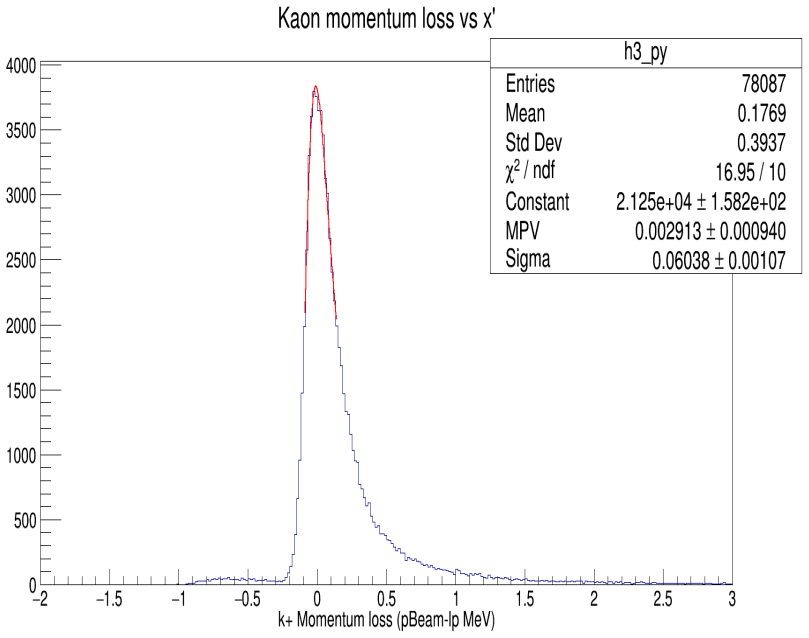




Zbeam > 9.6 cm

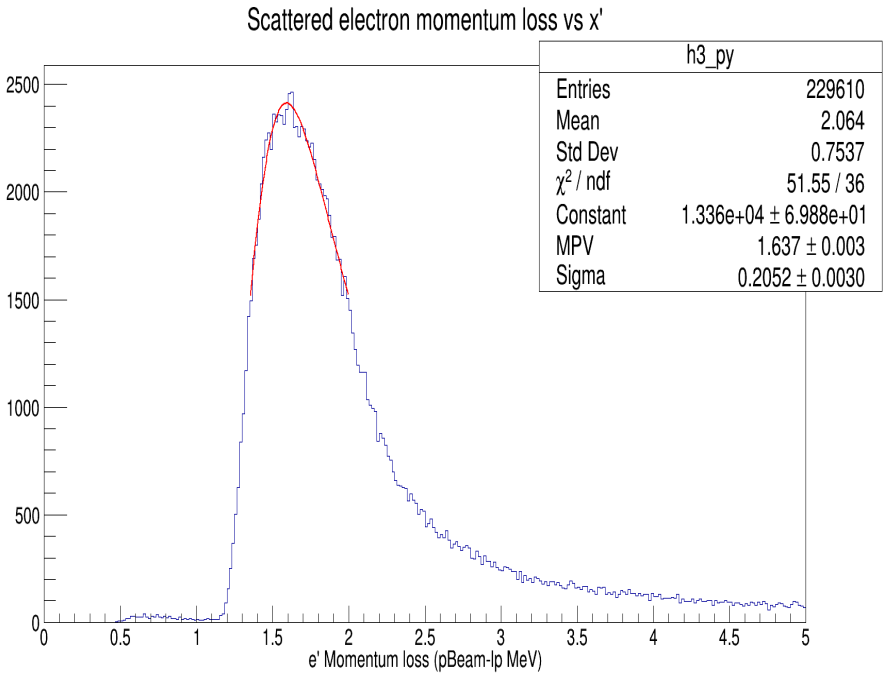
Energy loss kaons after correction



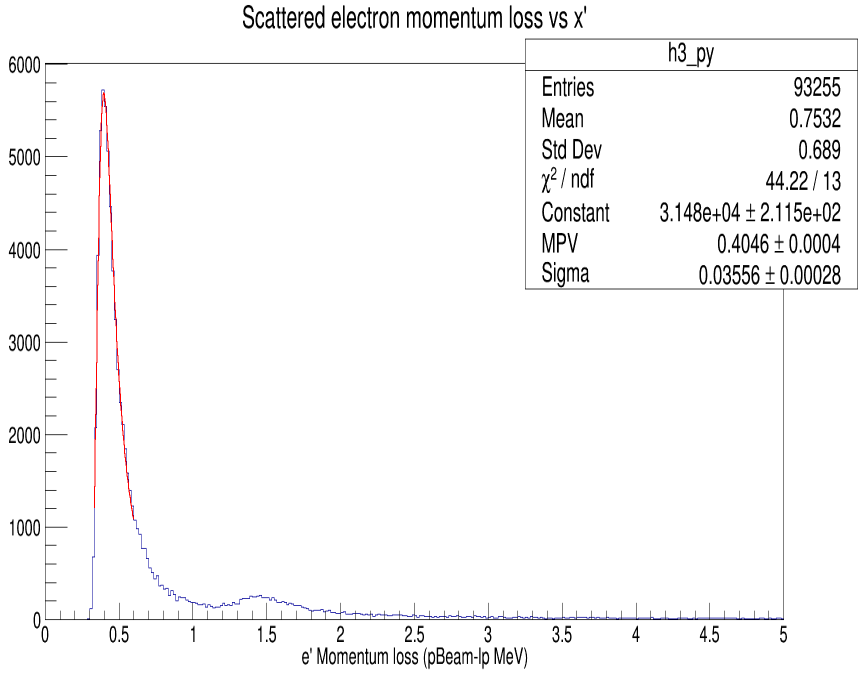


Zbeam < 9.6 cm

Energy loss electrons before correction

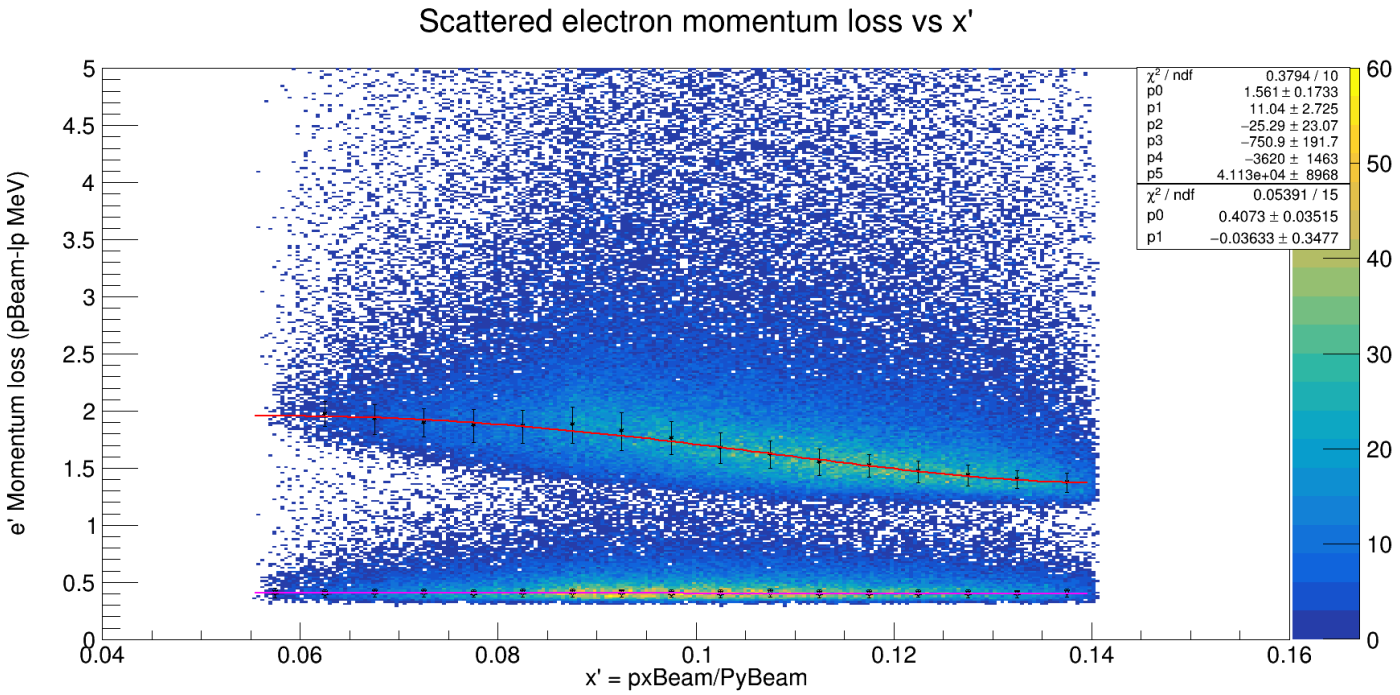


Zbeam < 5.5 cm



Zbeam > 5.5 cm

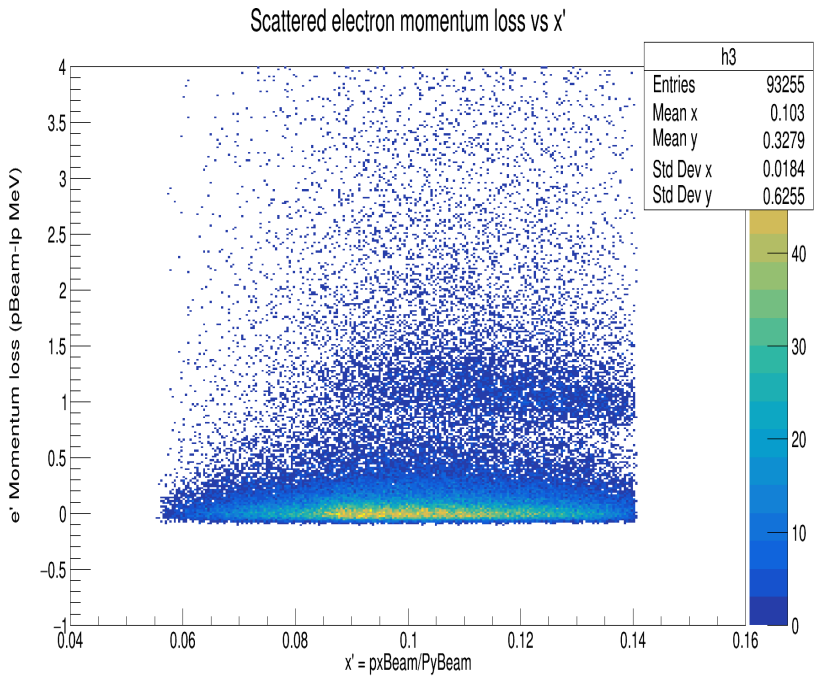
Energy loss electrons fitted

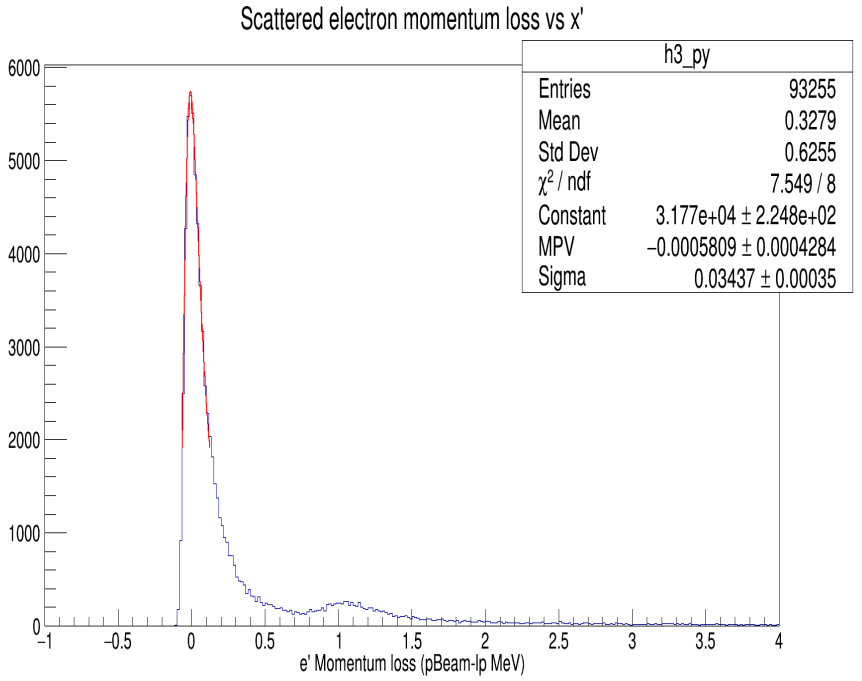


Fit function upper: $1.561 + 11.04 * x' - 25.29 * x'^2 - 750.9 * x'^3 - 3620 * x'^4 + 4.113e+04 * x'^5$

Fit function lower: $0.4073 - 0.03633 * x'$

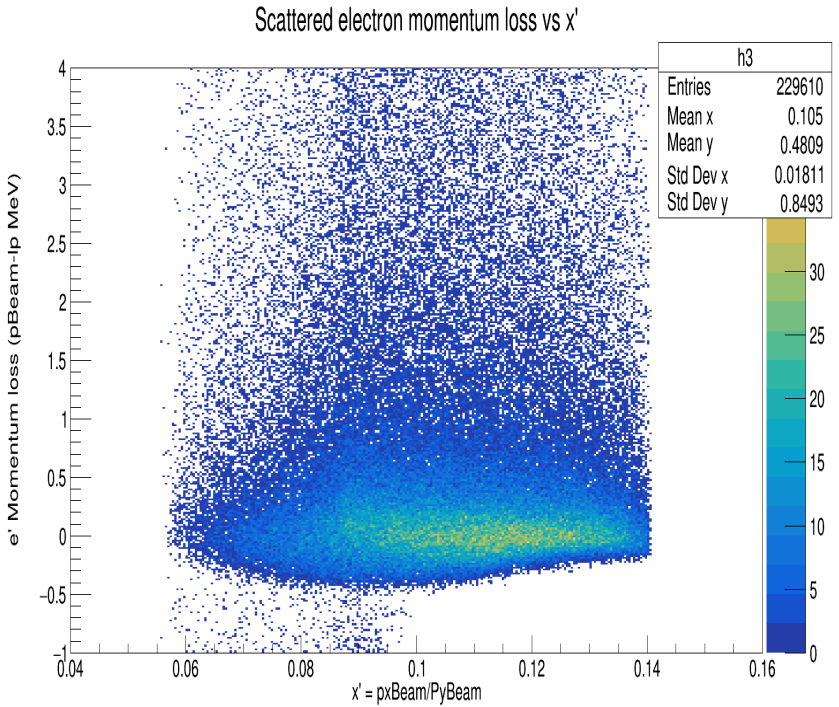
Energy loss electron after correction

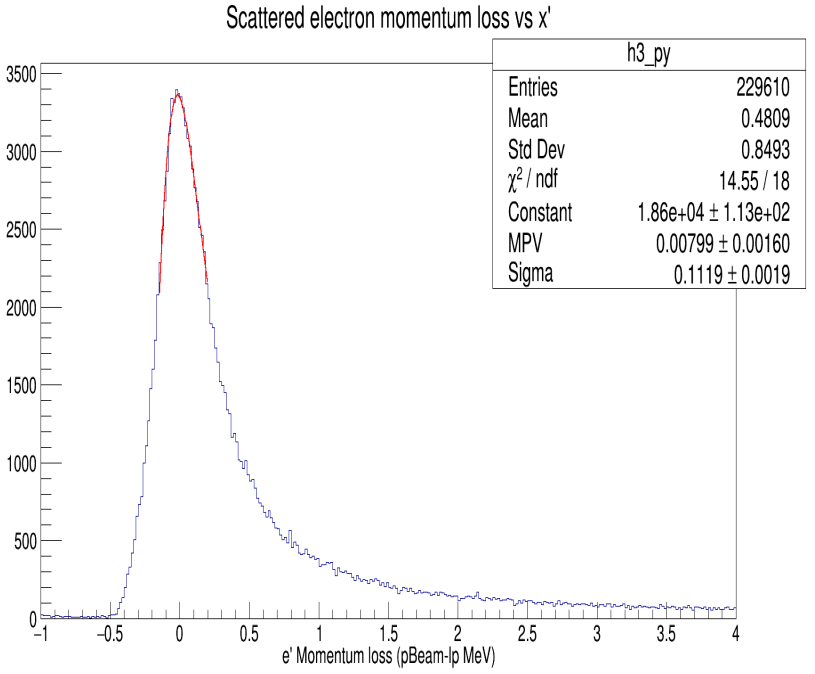




Zbeam > 5.5 cm

Energy loss electron after correction





Zbeam < 5.5 cm

summary

- The upper region of the energy loss was more spread out for the electron due to being changed to a more forward angle
- The shape of the kaon energy loss is basically unchanged
- The corrections had a similar result to reduce the sigma by half for the upper region (unchanged for the lower)
- The corrections does move each peak to zero