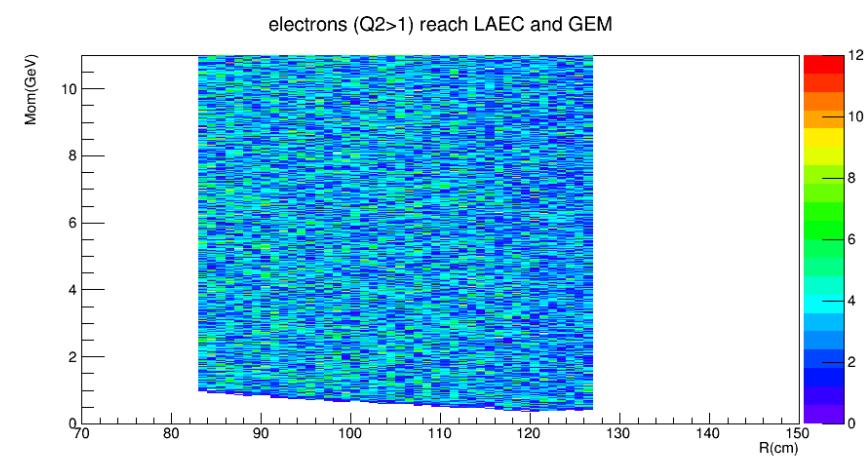
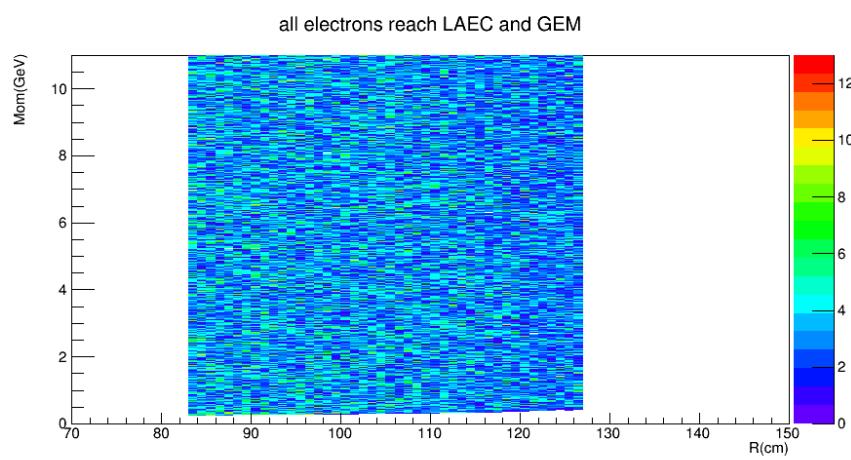
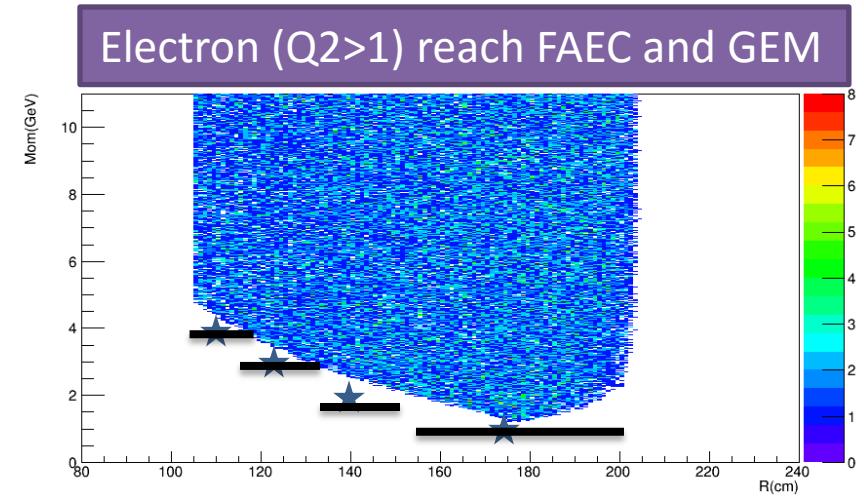
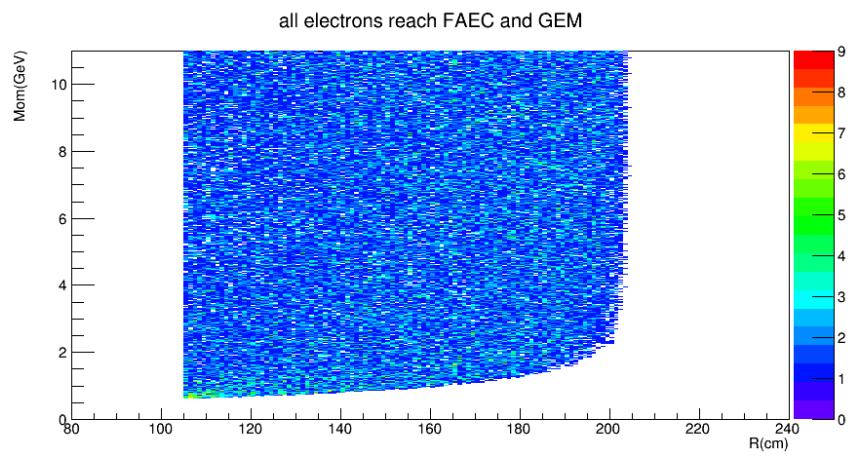


SIDIS He3 trigger update EC cut test

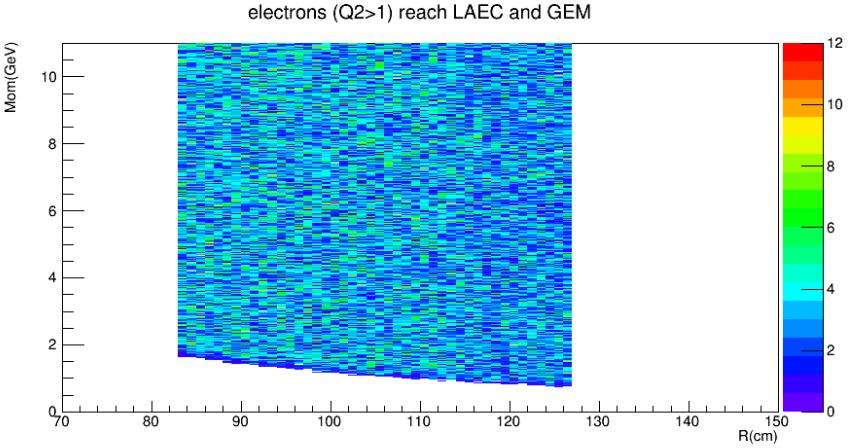
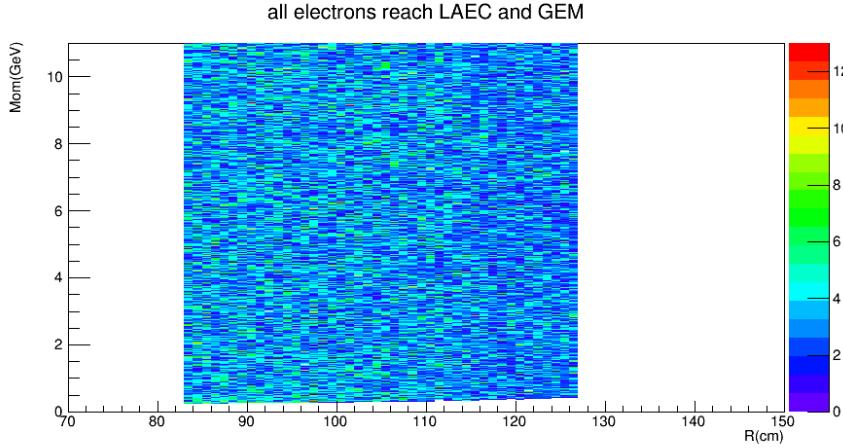
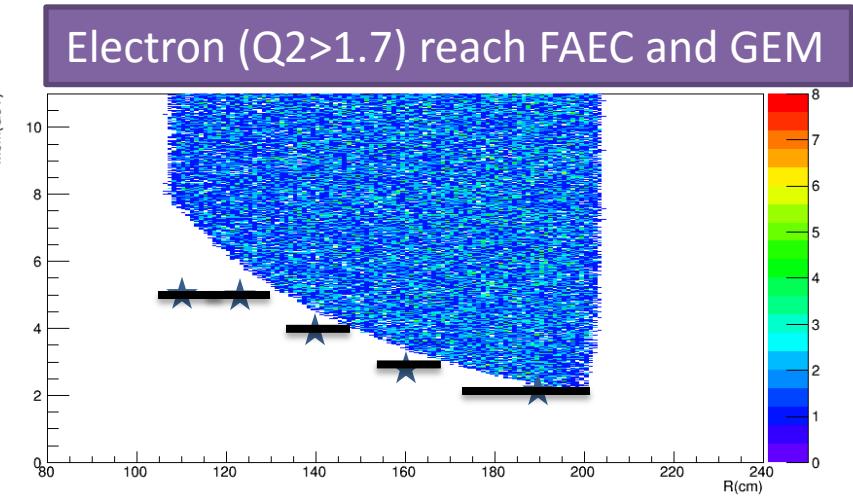
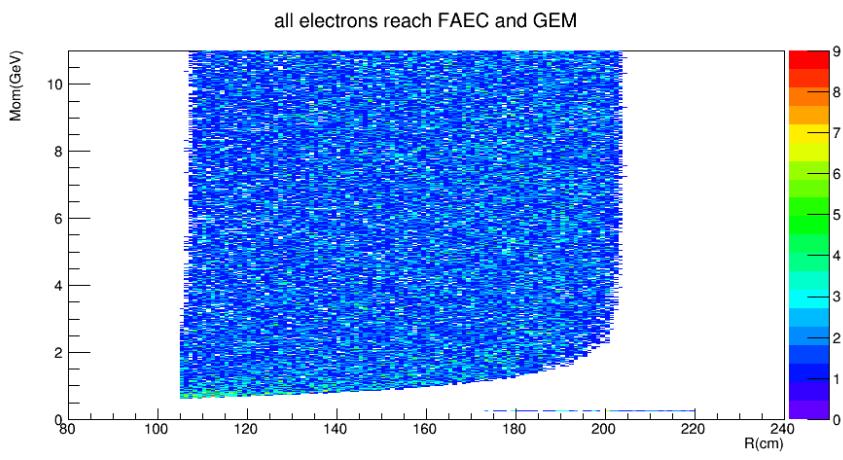
Zhiwen Zhao

2016/12/6

Cut Q2>1

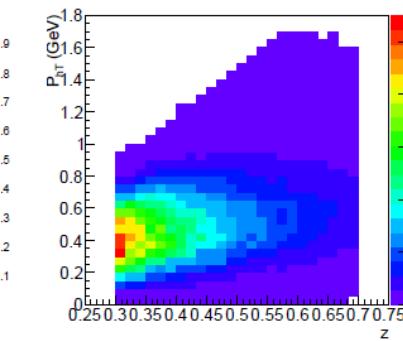
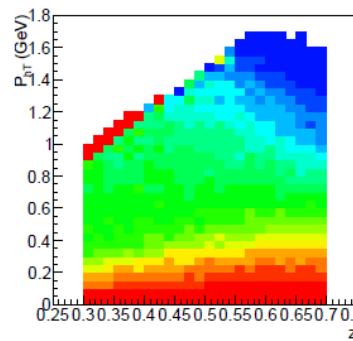
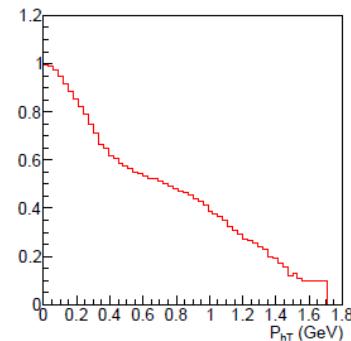
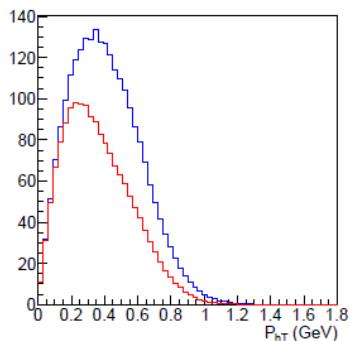
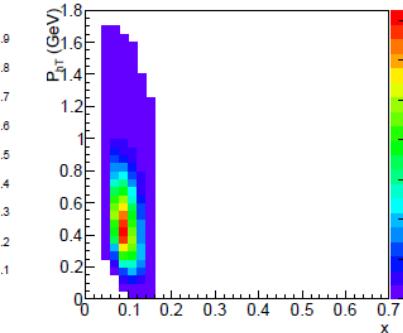
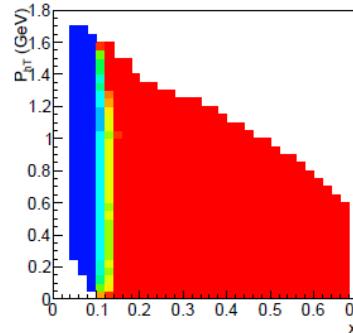
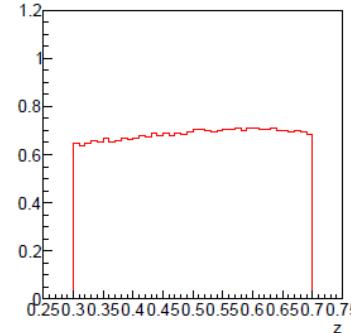
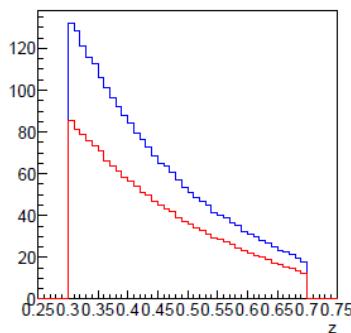
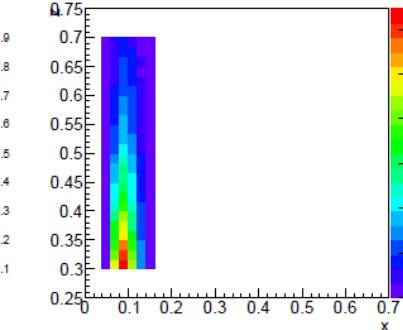
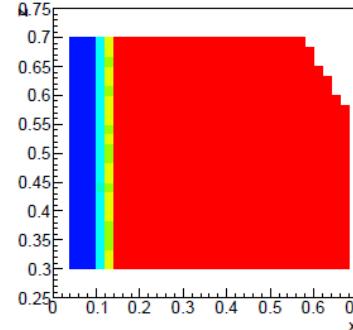
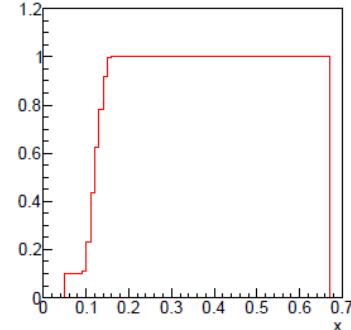
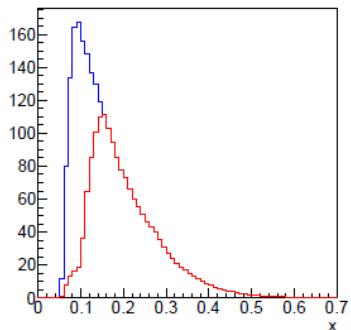


cut “ $P>5\text{GeV}$ when $\theta<10\text{deg}$,
 $Q2>1.7\text{GeV}$ when $\theta>10\text{deg}$ ”



SIDIS single electron trigger rate change between cut “Q2>1” and cut “P>5GeV when theta<10deg, Q2>1.7GeV when theta>10deg”

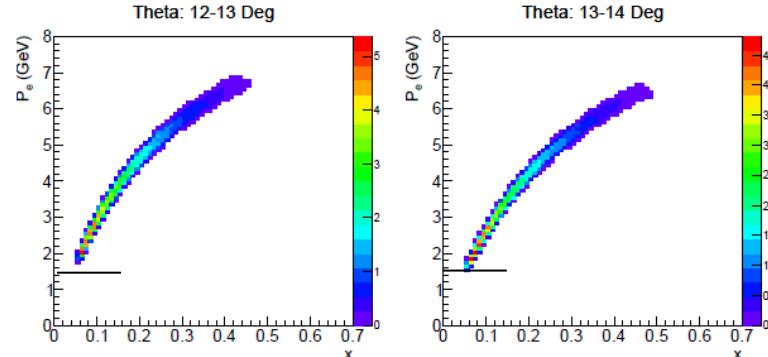
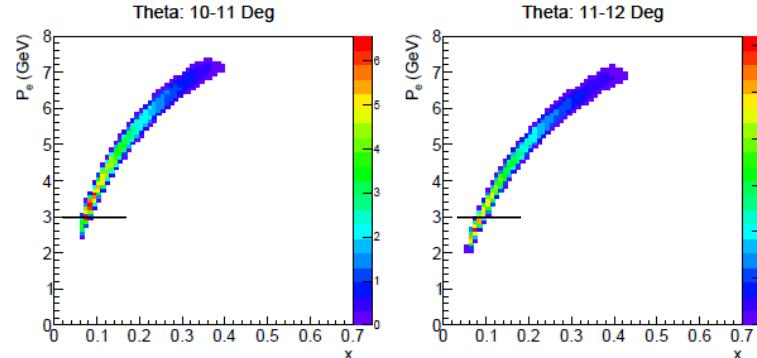
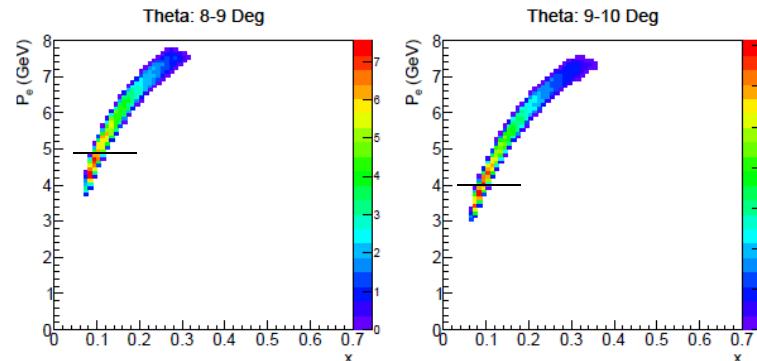
electron trigger rate (kHz): source e- 58 -> 35, source hadron 47->6



SIDIS e- distribution

How the plots is drawn

- Both SIDIS e- and pion accepted,
- $Q^2 > 1.0$
- $W > 2.3$
- $W' > 1.6$
- $0.3 < z < 0.7$



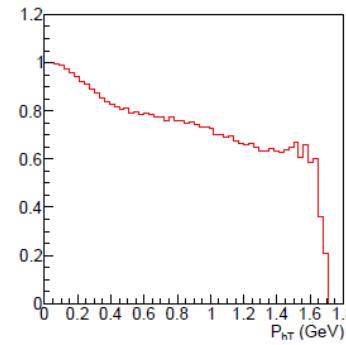
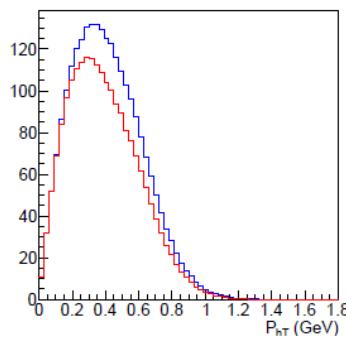
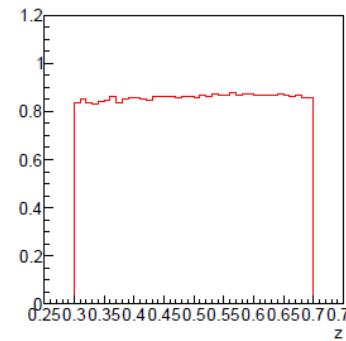
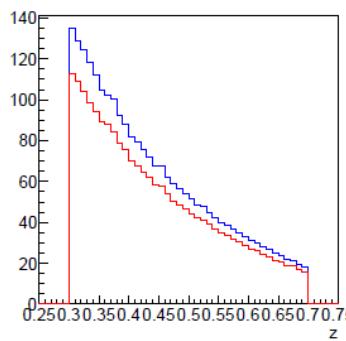
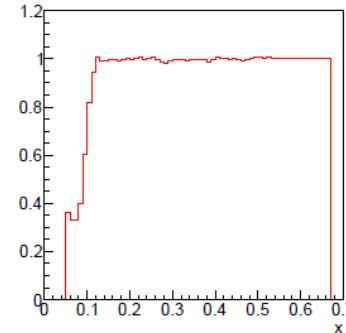
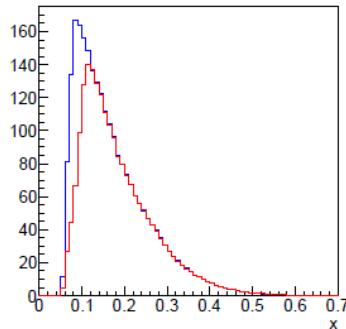
Possible EC trigger

cut "5-4-3-3-1.5-1.5-1":

- $P>5$, at theta 8-9 deg, R_FAEC 105-120 cm
- $P>4$, at theta 9-10 deg, R_FAEC 120-135 cm
- $P>4$, at theta 10-11 deg, R_FAEC 135-149 cm
- $P>4$, at theta 11-12 deg, R_FAEC 149-163 cm
- $P>4$, at theta 12-13 deg, R_FAEC 163-177 cm
- $P>4$, at theta 13-14 deg, R_FAEC 177-191 cm
- $P>4$, at theta 14-15 deg, R_FAEC 191-235 cm

SIDIS single electron trigger rate change between cut “Q2>1” and cut “5-4-3-3-1.5-1.5-1”

FA electron trigger rate (kHz): source e- 58 -> 41, source hadron 47->16



backup

Cut Q2>1.3

