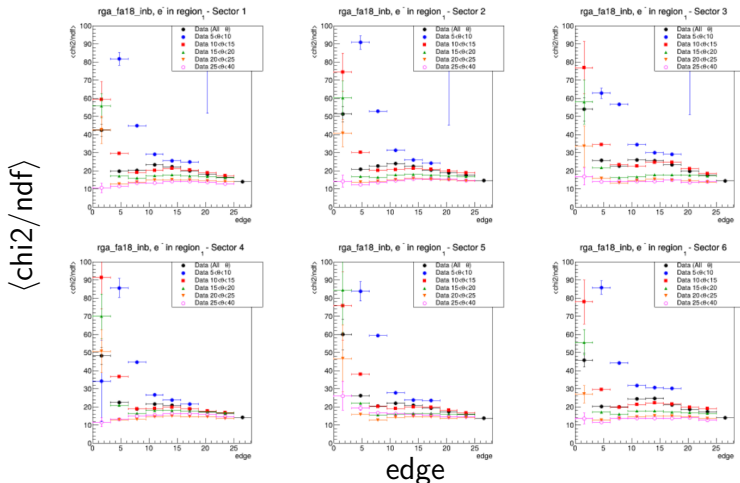


Cut is determined by *edge* parameter in the REC::Traj bank. This variable is a signed quantity defining the distance in cm to the closest edge of the detector. The value is determined where the *chi2ndf* of tracks stabilizes. Results below from the RG-A Pass 2 Analysis Note.

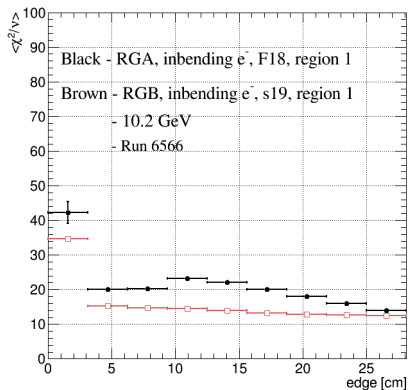
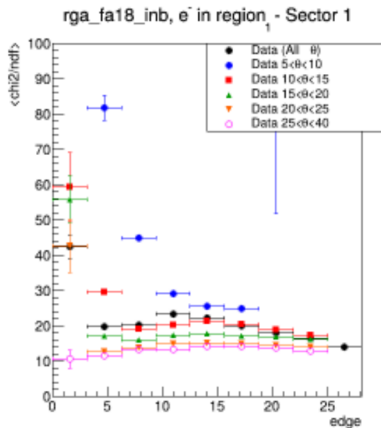
| Inbending Tracks |                                                                       |
|------------------|-----------------------------------------------------------------------|
| Region 1         | If $\theta < 10^\circ$ , <i>edge</i> > 10 cm, else <i>edge</i> > 3 cm |
| Region 2         | If $\theta < 10^\circ$ , <i>edge</i> > 3 cm, else <i>edge</i> > 3 cm  |
| Region 3         | <i>edge</i> > 10 cm                                                   |

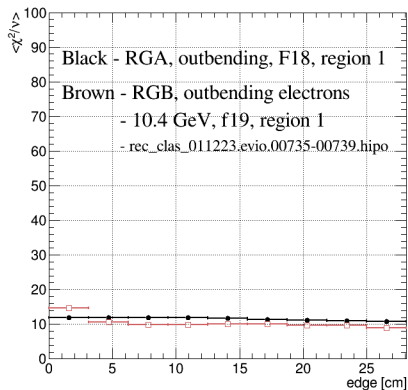
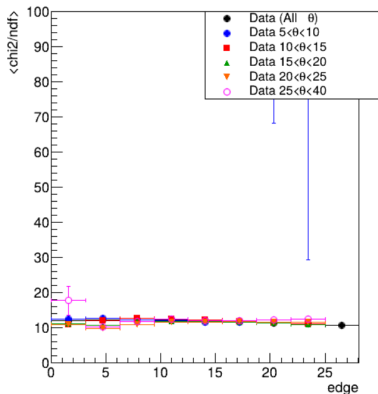
| Outbending Tracks |                     |
|-------------------|---------------------|
| Region 1          | <i>edge</i> > 3 cm  |
| Region 2          | <i>edge</i> > 3 cm  |
| Region 3          | <i>edge</i> > 10 cm |

Angle cut determined by stability of  $\langle \chi^2/\nu \rangle$  each sector.<sup>1</sup>

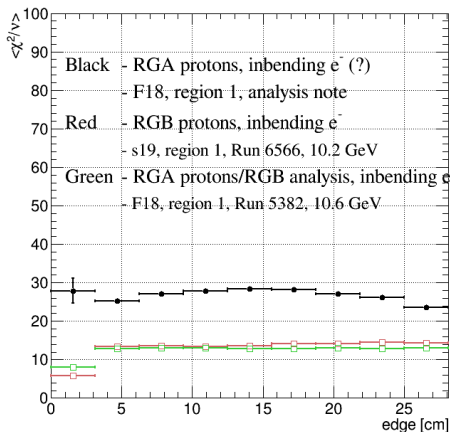
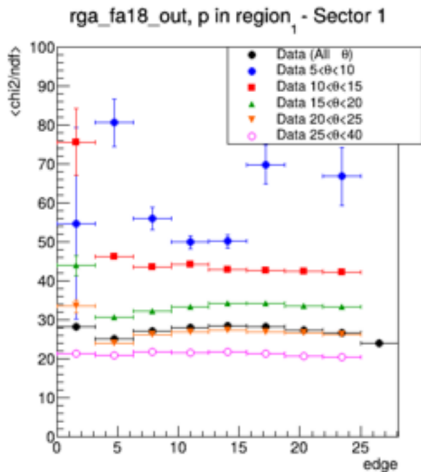


1 - RGA\_Pass\_2\_Analysis\_Overview\_and\_Procedures.pdf, S. Alvarado *et al.*

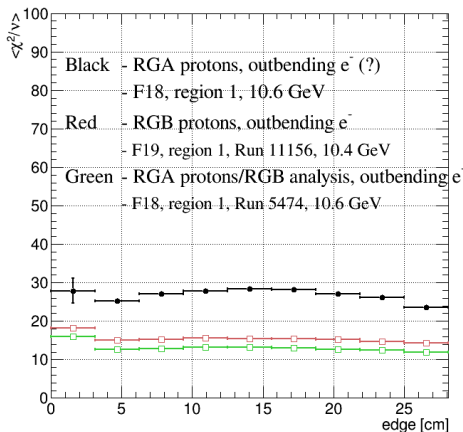
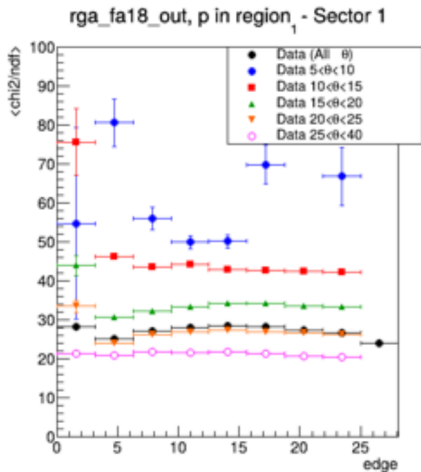


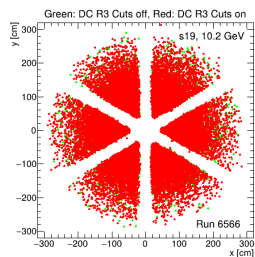
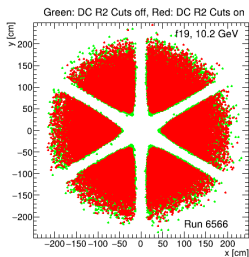
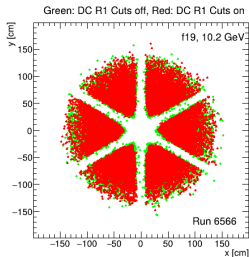
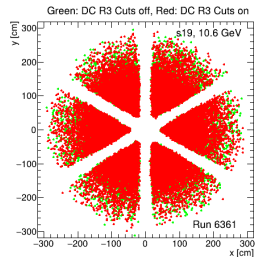
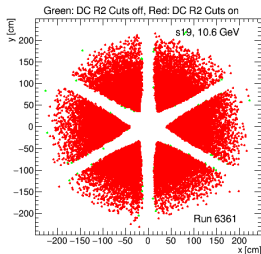
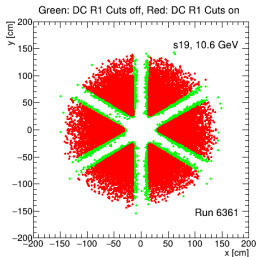
rga\_fa18\_out,  $e^-$  in region<sub>1</sub> - Sector 1

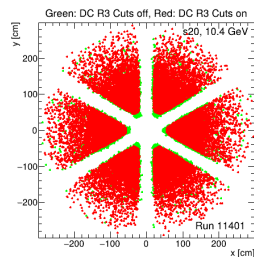
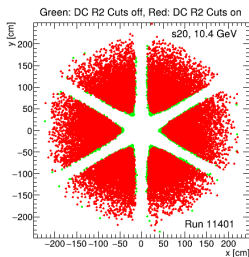
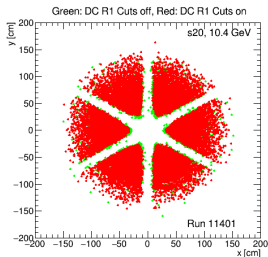
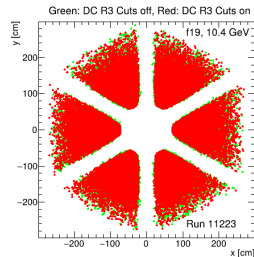
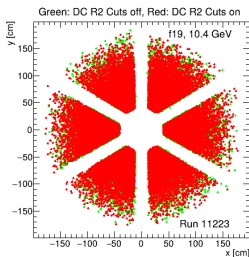
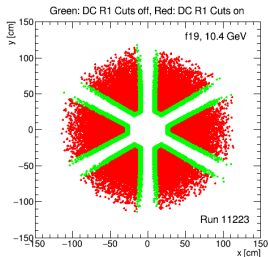
# DC Fiducial Cuts - RGA protons (inbending electrons) 5



# DC Fiducial Cuts - RGA protons (outbending electrons) 6







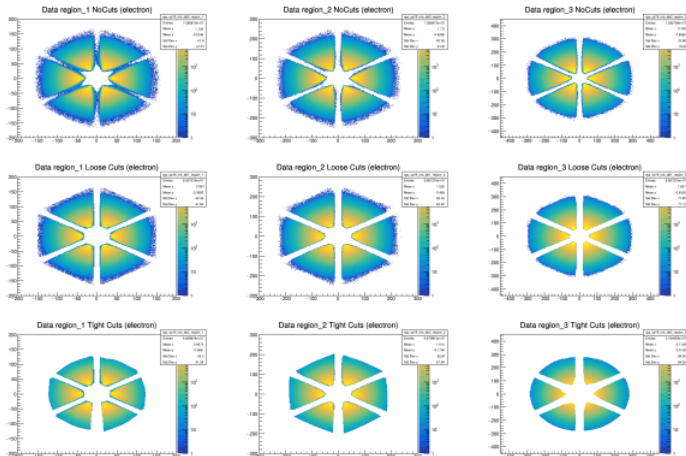
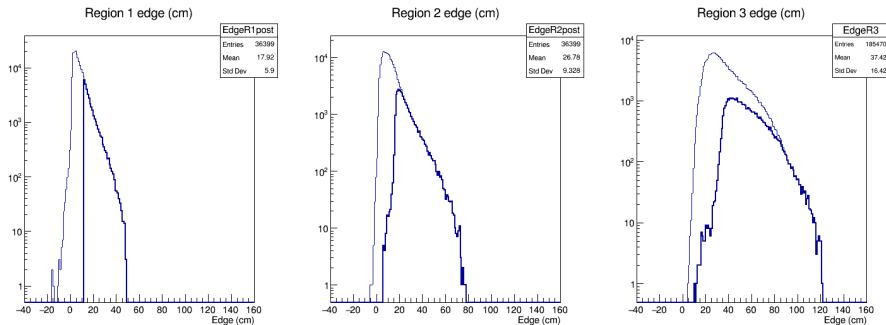


FIG. 41: Electron hit positions for regions 1, 2 and 3 (columns) with no, loose and tight drift chamber fiducial cuts (rows) for the RGA Sp19 Inb data set.

# Additional Slides

Fall, 2019, 10.4 GeV



Fall, 2019, 10.4 GeV

