

① List of tasks.

x - PCAL fiducial cuts Exclude FTOF panel 2 Sampling fraction cut Minimum Momentum chi2pid momentum corrections electron β correction	y - DC fiducial cuts v_z Calorimeter diagnol cut Delta_vz for ep events Neutron fiducial cut electron energy loss correction e, n, p momentum corrections
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x - draft of code in G_M^n analysis program.

y - in development.

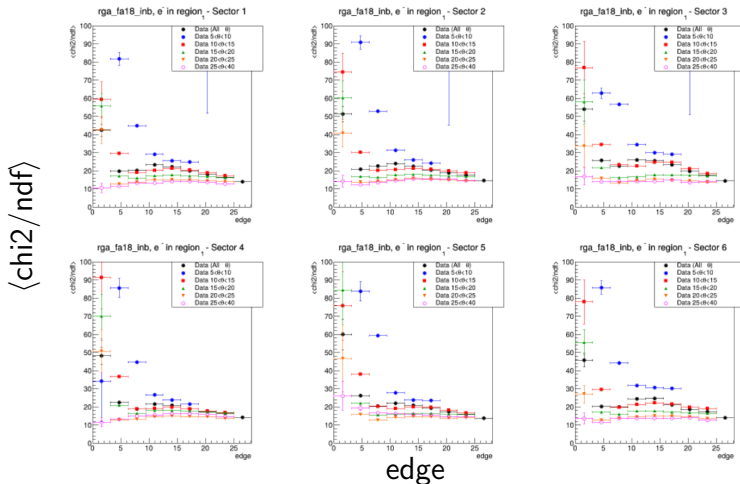
② Use draft of RG-A analysis note for guidance (Tim Hayward, contact author).

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.

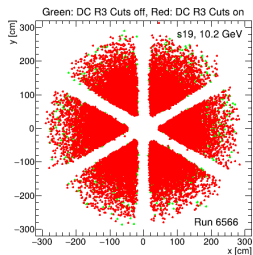
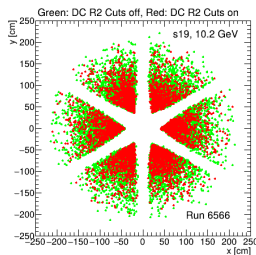
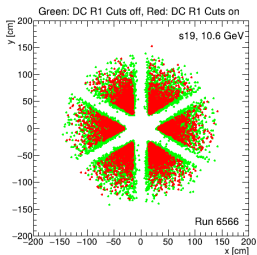
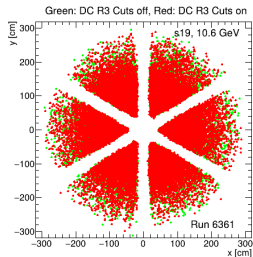
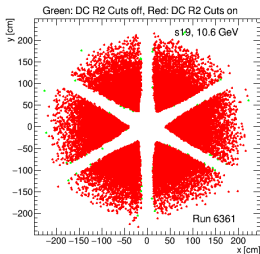
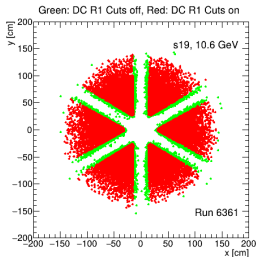
Inbending Tracks	
Region 1	If $\theta < 10^\circ$, $edge > 10\text{ cm}$, else $edge > 3\text{ cm}$
Region 2	If $\theta < 10^\circ$, $edge > 3\text{ cm}$, else $edge > 3\text{ cm}$
Region 3	$edge > 10\text{ cm}$

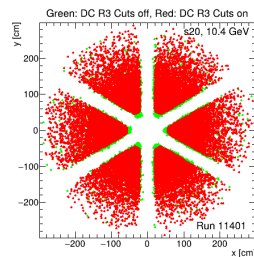
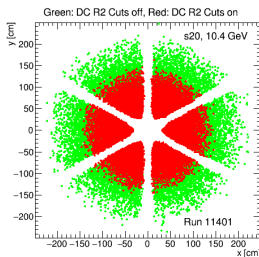
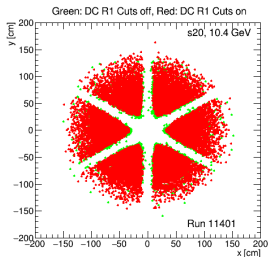
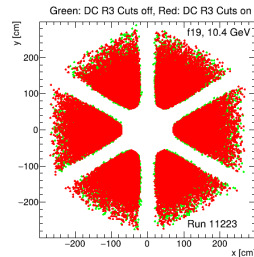
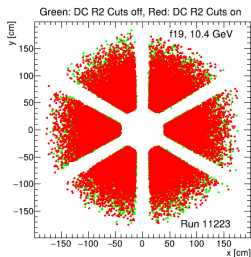
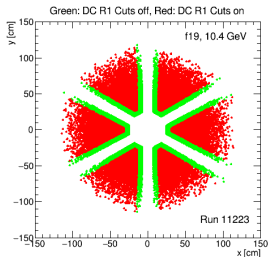
Outbending Tracks	
Region 1	$edge > 3\text{ cm}$
Region 2	$edge > 3\text{ cm}$
Region 3	$edge > 10\text{ cm}$

Angle cut determined by stability of chi2pid in each sector.¹

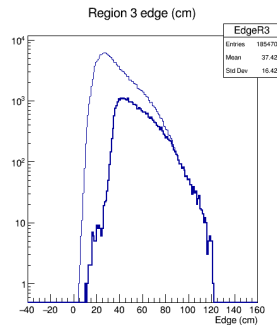
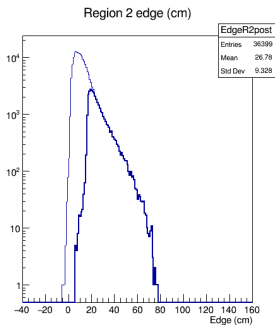
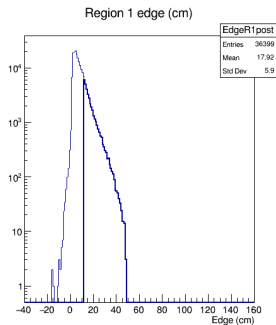


1 - RGA_Pass_2_Analysis_Overview_and_Procedures.pdf, S. Alvarado *et al.*

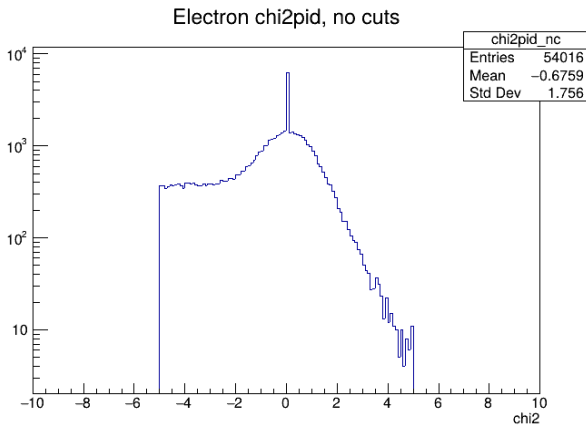




Fall, 2019, 10.4 GeV



Fall, 2019, 10.4 GeV



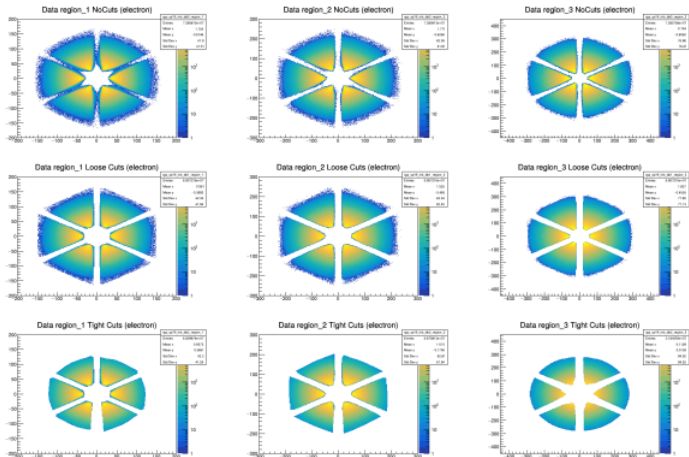


FIG. 41: Electron hit positions for regions 1, 2 and 3 (columns) with no, loose and tight drift chamber fiducial cuts (rows) for the RGA Sp19 Inb data set.