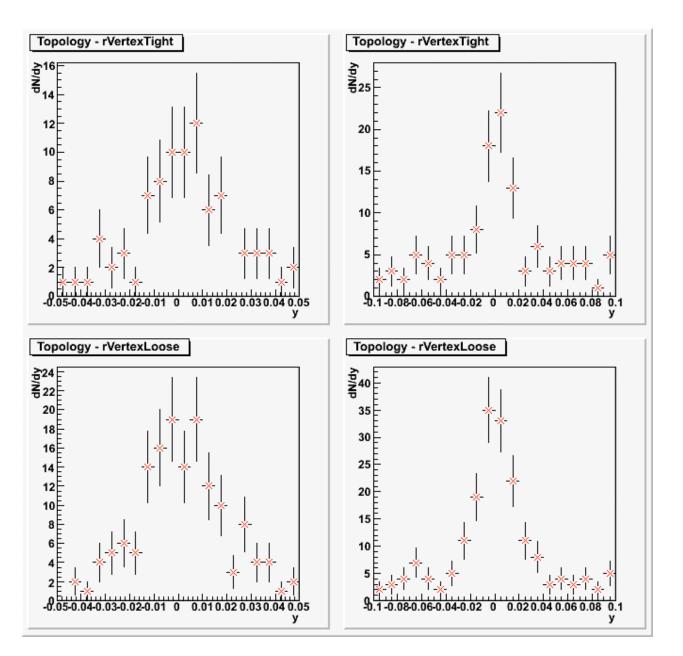
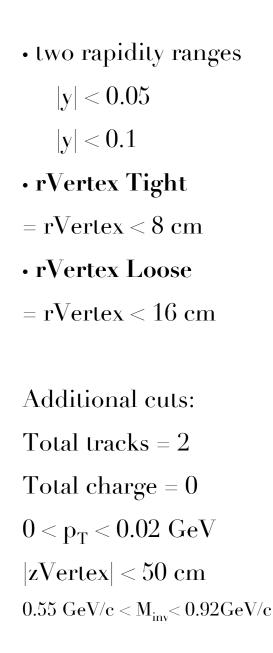
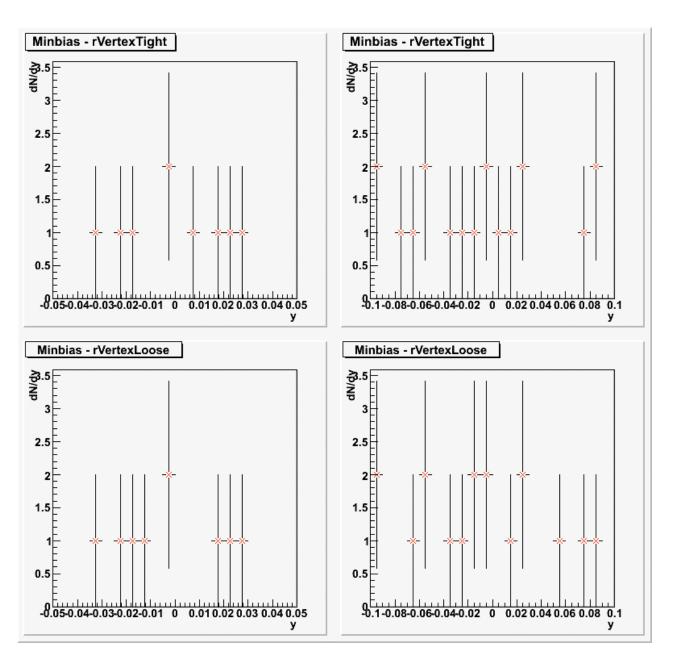
- two rapidity ranges
 |y| < 0.05
 |y| < 0.1
 rVertex Tight
 rVertex < 8 cm
 rVertex Loose
- = rVertex < 16 cm
- $\label{eq:additional cuts:} \label{eq:additional cuts:} Total tracks = 2 \label{eq:additional cuts:} Total charge = 0 \label{eq:additional cuts:} 0 < p_T < 0.02 \ GeV \label{eq:additional cuts:} \label{eq:additional cuts:} \label{eq:additional cuts:} \end{tabular} \end{tabular}$



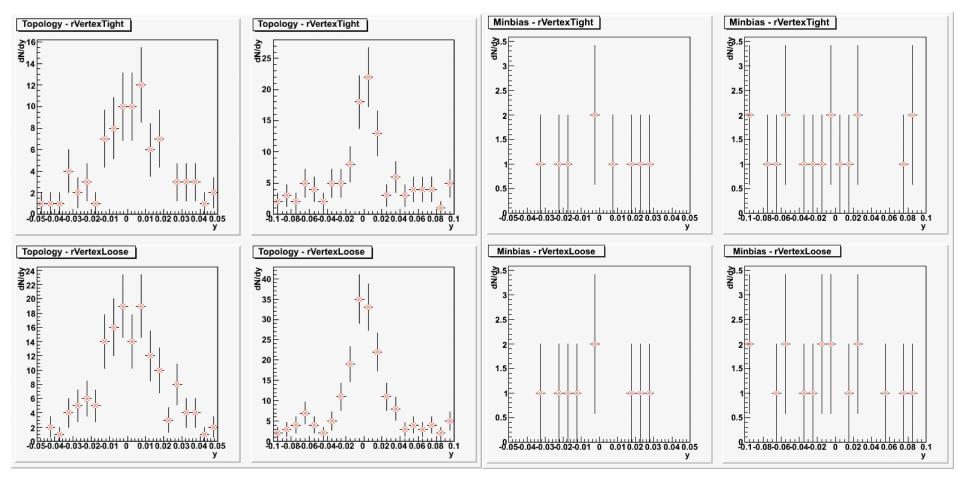
Topology rapidity study





Minbias rapidity study

Side by side comparison



• There is a clear cosmic ray peak in the topology data, while the minbias sample has much fewer candidates, nearly negligible

• As evidenced by the plots, the current cut on rapidity (|y|<0.1) and a tight cut on rVertex (r<8cm) should eliminate most of the cosmics from the topology set, the same rapidity cut is not needed for the minbias sample