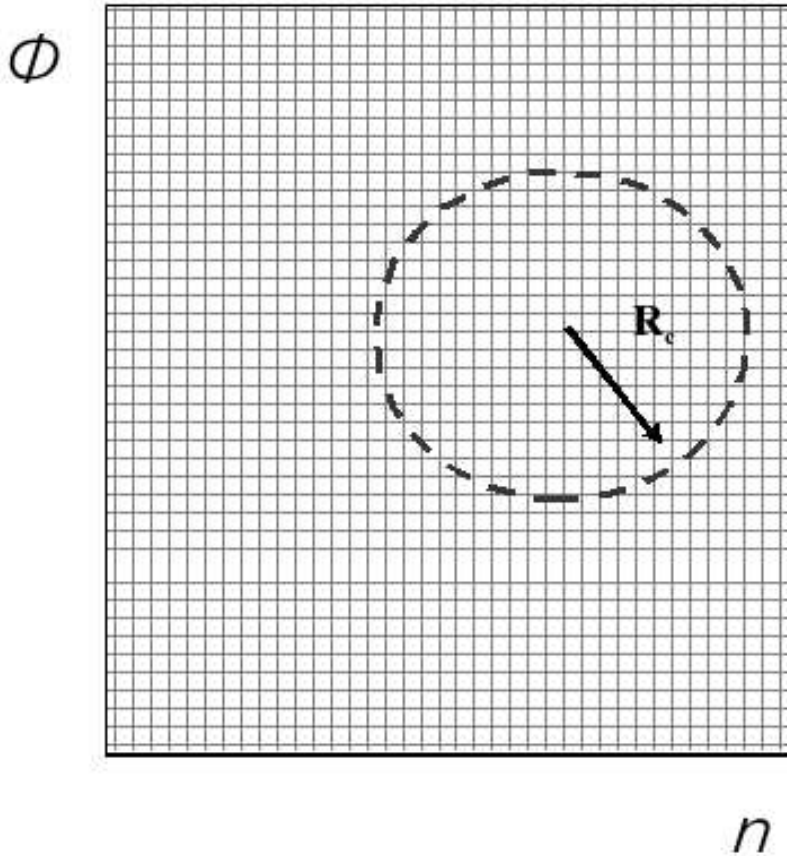


Jets Analysis

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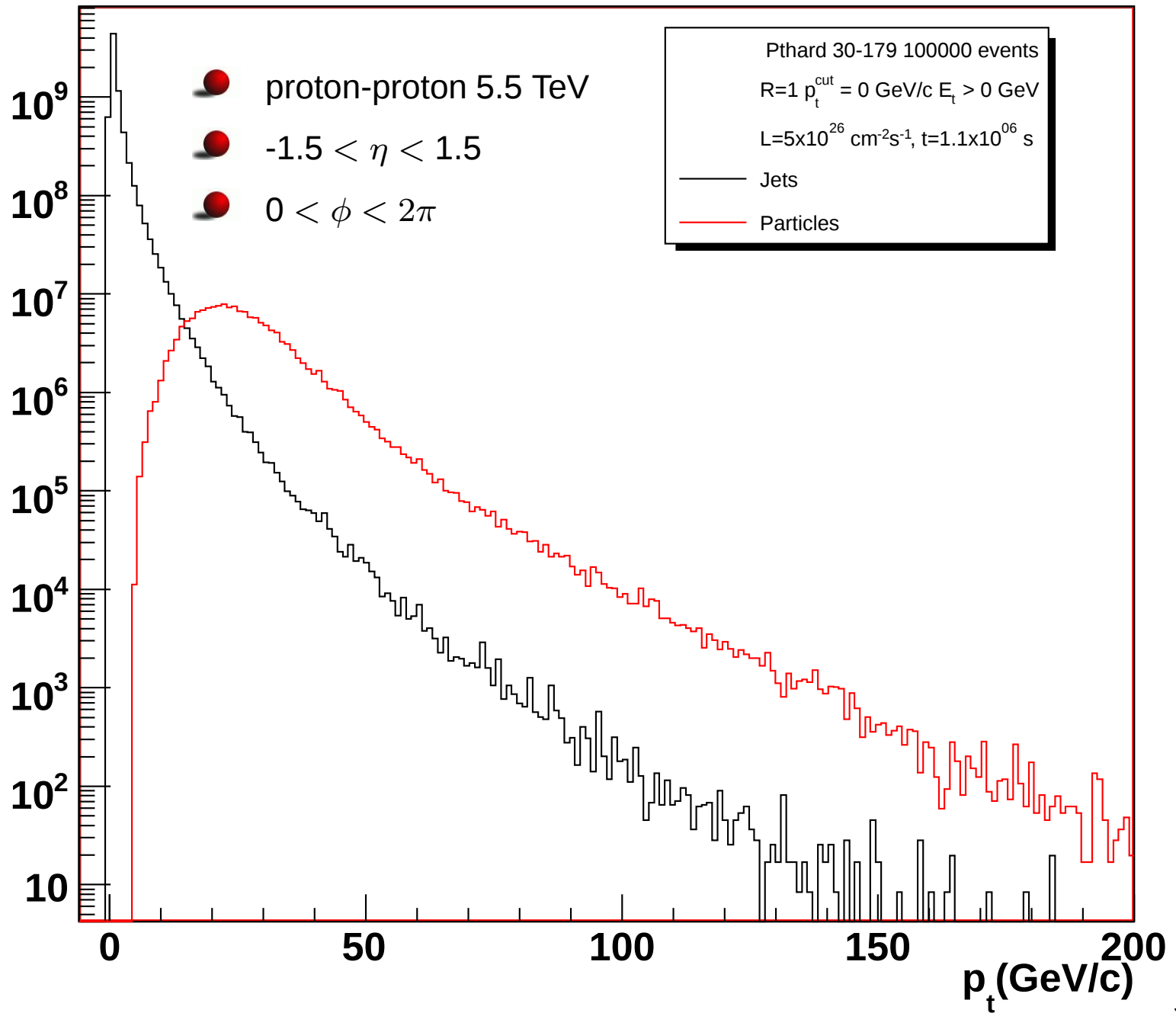
UA1 cone algorithm



- (1) Estimate the average energy per grid cell from all grid cells.
- (2) Sort cells in decreasing cell energy η^i .
- (3) Execute the jet-finding loop for each cell, starting with the highest cell energy.
- (4) Set the jet-cone centroid to be the center of the jet seed cell $(\eta^C, \varphi^C) = (\eta^i, \varphi^i)$.
- (5) Using all cells with $\sqrt{(\eta^i - \eta^C)^2 + (\varphi^i - \varphi^C)^2} < R_c$ of the initial centroid, calculate the new energy weighted centroid to be the new initial centroid. Repeat the centroid calculation iteration until the difference between two subsequent centroids shifts by less than one cell.

- (6) Store the centroid as a jet candidate and flag all cells within the cone as inside a jet.
- (7) For each jet candidate, calculate the energy by summing the energies of the cells

Jets



Azimuthal Correlations

