```
|V_z| < 0.0cm 
                                         \begin{array}{c} V_z^{V_z} \\ 30 \\ \hline \sqrt{s_{NN}} |V_z| V_r |V_z^{VPD} - V_z^{TPC}| \\ \hline \\ \vdots \\ \end{array} 
                                                                                                                                                    d_{ca}
                                                                                                                                                                                                                              |\eta| < 1.0
                                                                                                                                                                                                  |\eta| < 1.0 TPC
|n\sigma_p|
0.2 < p_T < 2.0 TPC+TOF
|n\sigma_p| -0.01 < m^2 < 0.1 (\text{GeV}^2/c^2)
                                                \begin{array}{c} d_{ca} \\ n\sigma? \\ \pi^+\pi^- \\ |n\sigma_{\pi}| < \end{array}
                                        \begin{array}{l} |n\sigma_{\pi}| < \\ 3.0 \\ 0.017 - \\ 0.013 \times \\ p < \\ m^2 < \\ 0.04 \text{GeV}/c \\ \pi_{\overline{p}}^+ \pi^- \\ |n\sigma_p| < \\ 3.0 \\ 0.5 < \\ m^2 < \\ 1.5 \text{GeV}/c \\ p\overline{p} \end{array}
                                              \begin{array}{c} p\overline{p} \\ ??\sqrt{s_{NN}}\pi Kp \\ 200.pdf\sqrt{s_{NN}}dEdxp/q \\ 200.pdf\sqrt{s_{NN}}m^2 \end{array}
                                                   p/q
                                                \begin{tabular}{l} Aucollisions at = \\ 39 GeV. It was found that a thigher range, protons and kaons cannot be identified clearly because of merged bands. The left upper particular than the control of the control of
                                        \label{eq:continuous_journal_interpreta} \begin{subarray}{l} \textbf{Successive} & \textbf{Successive} &
Q_{\mathbf{n},x} = \sum_{i}^{16} \omega_{i} \cos(n\varphi_{i})
(1)
Q_{\mathbf{n},y} = \sum_{i}^{16} \omega_{i} \sin(n\varphi_{i})
(2)
```

 $\sqrt{s_{\rm NN}} = \\ Use/VpdVz.pngAuAu200GeV$

 V_{r}^{z} < 2cm $|Vz^{VPD} - Vz^{TPC}| < c$

 $\omega_i = \frac{ADC_i}{\sum_{i=1}^{i=16} ADC_i}$