

# Systematic Uncertainty Study (HMS delta)

The dependence of the experimental cross section on spectrometer acceptance was tested by varying the cuts on the quantities  $(\delta, x'_{tar}, y'_{tar})$  in each spectrometer. The experimental cross section was then extracted for spectrometer cut variations of  $\pm 10\%$  and compared to the one with nominal cuts. In general, the variation of the cross section is small ( $< 0.5\%$ ). However, the value of the cross section at small values of  $-t$  depends significantly on the HMS  $y'_{tar}$  acceptance. The increased sensitivity at small  $-t$  compared to other spectrometer quantities may be attributable to the strong correlation with HMS  $y'_{tar}$ .