

Figure 1: Cut on z vertex within target

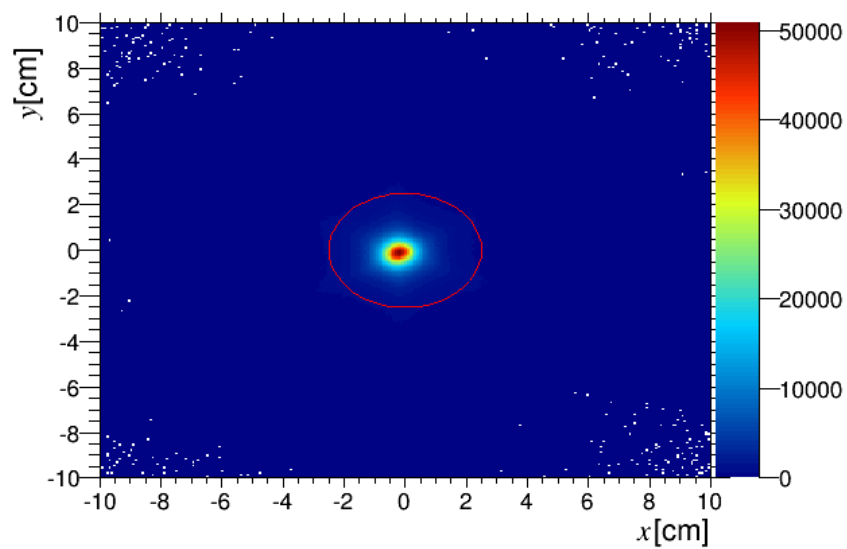


Figure 2: Cut on xy vertex with $2 > x^2 + y^2$

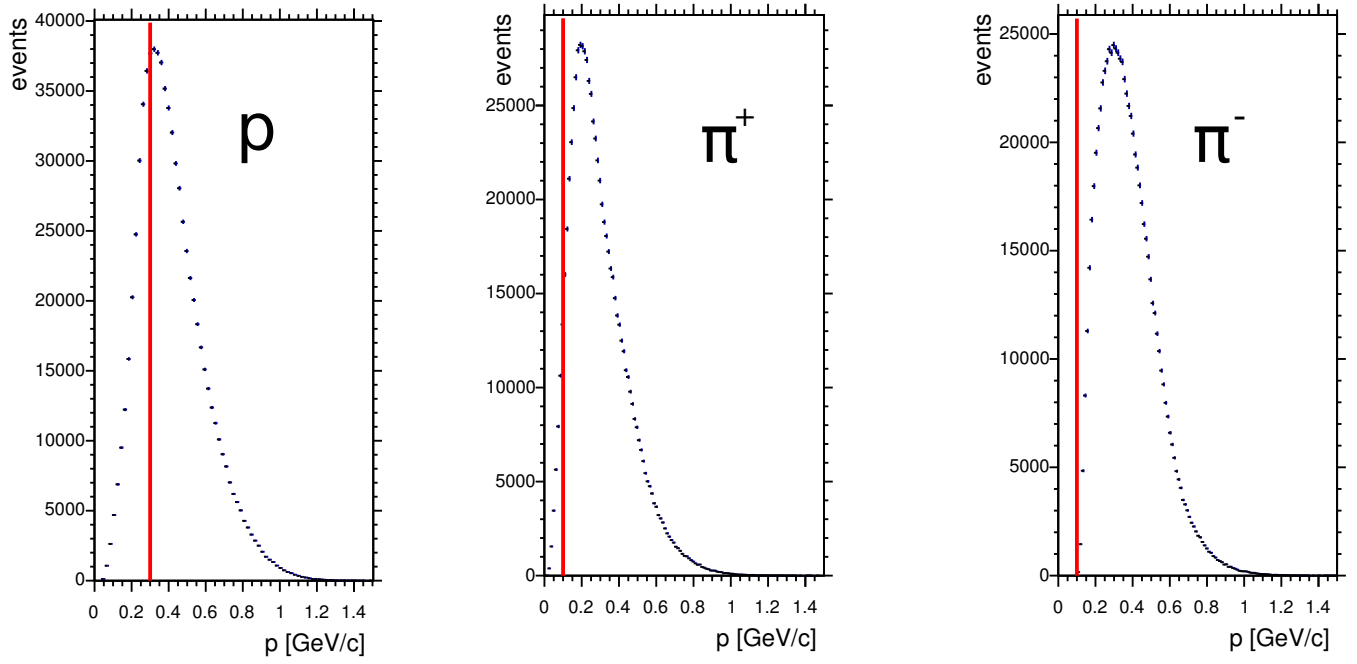


Figure 3: Cut on minimum momenta. $p_m > 0.3 \text{ GeV}/c$, $p_{\pi^+, \pi^-} > 0.1 \text{ GeV}/c$

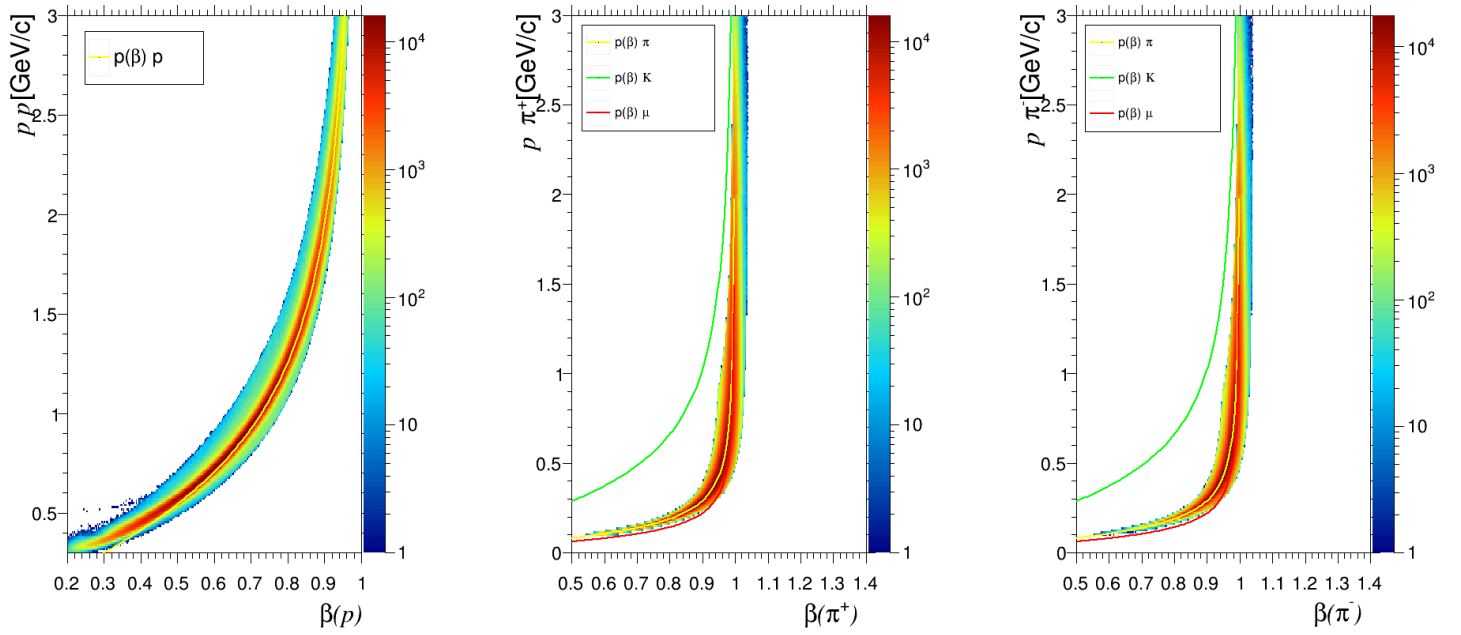


Figure 4: Cut on momentum Vs β . Yellow shows calculated β for the particle. $-0.04 < \beta_{calc} - \beta_{meas} < 0.04$

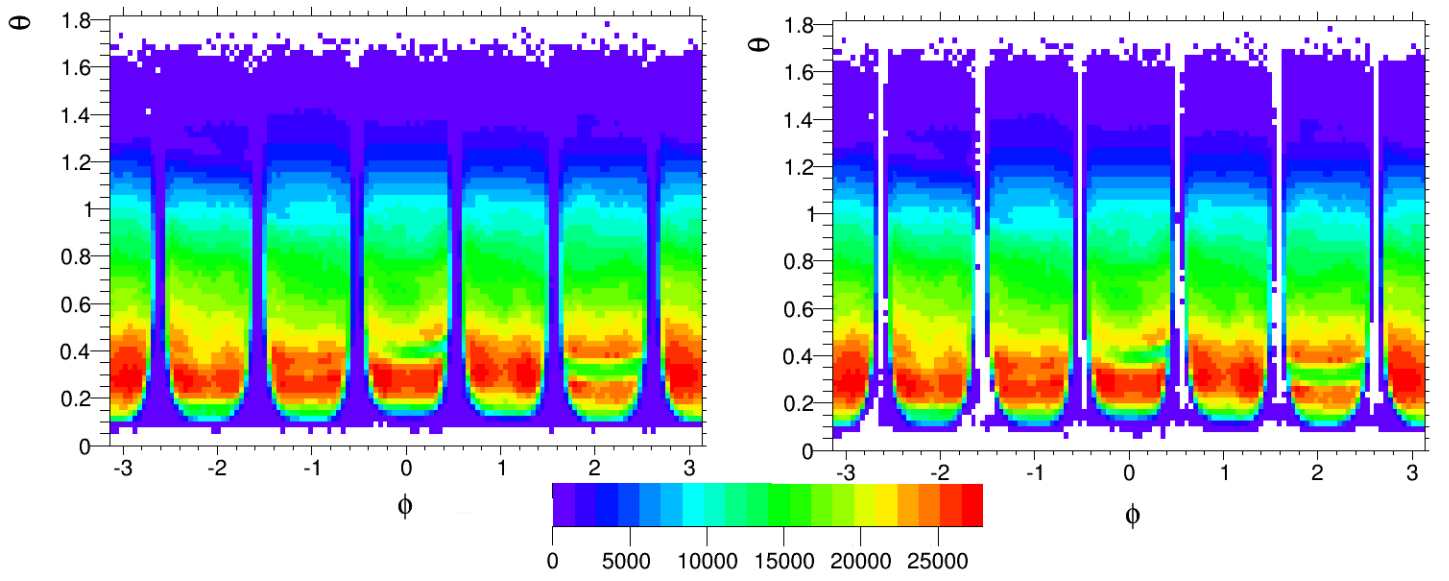


Figure 5: Cut on fiducial volume. Left before cut and right after the cut.

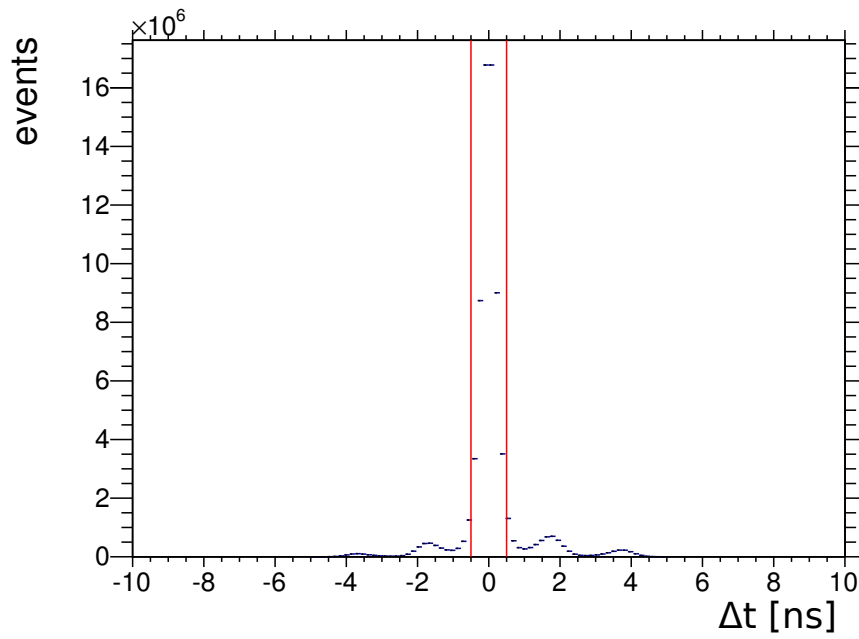


Figure 6: Cut on timing. Start counter time – tagger time < 0.5 ns.

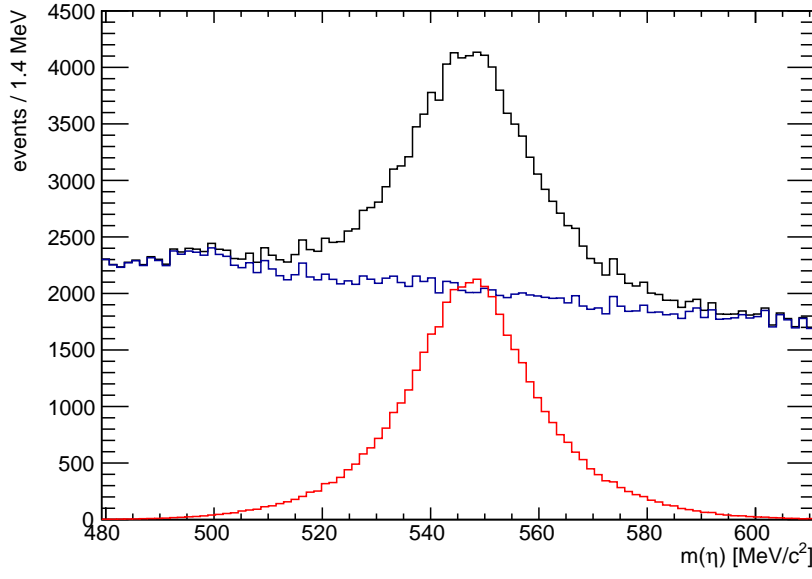


Figure 7: Invariant η mass after Q-value background suppression. Black: Before, Blue: 1-Q weighted, Red: Q weighted

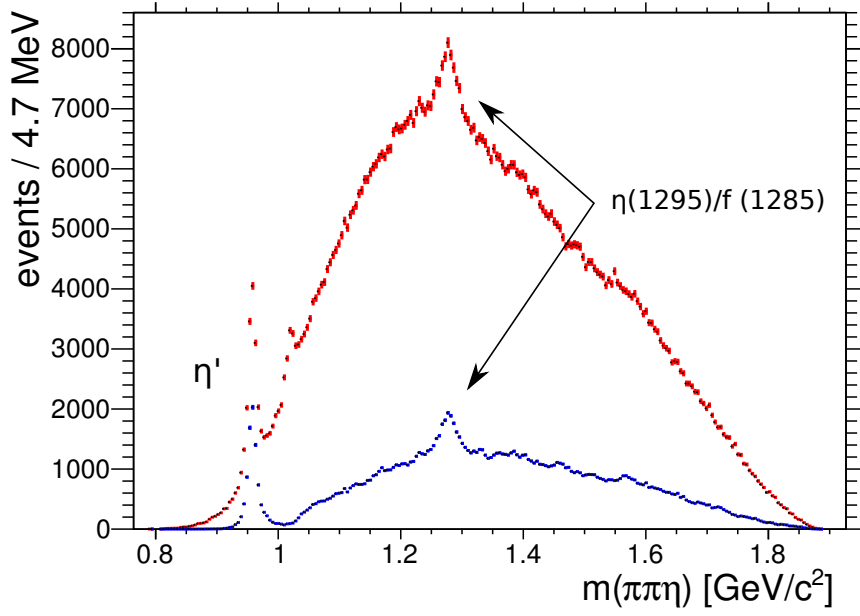


Figure 8: Invariant $\pi^+\pi^-\eta$ mass after Q-value background suppression. Red: Before, Blue: Q weighted

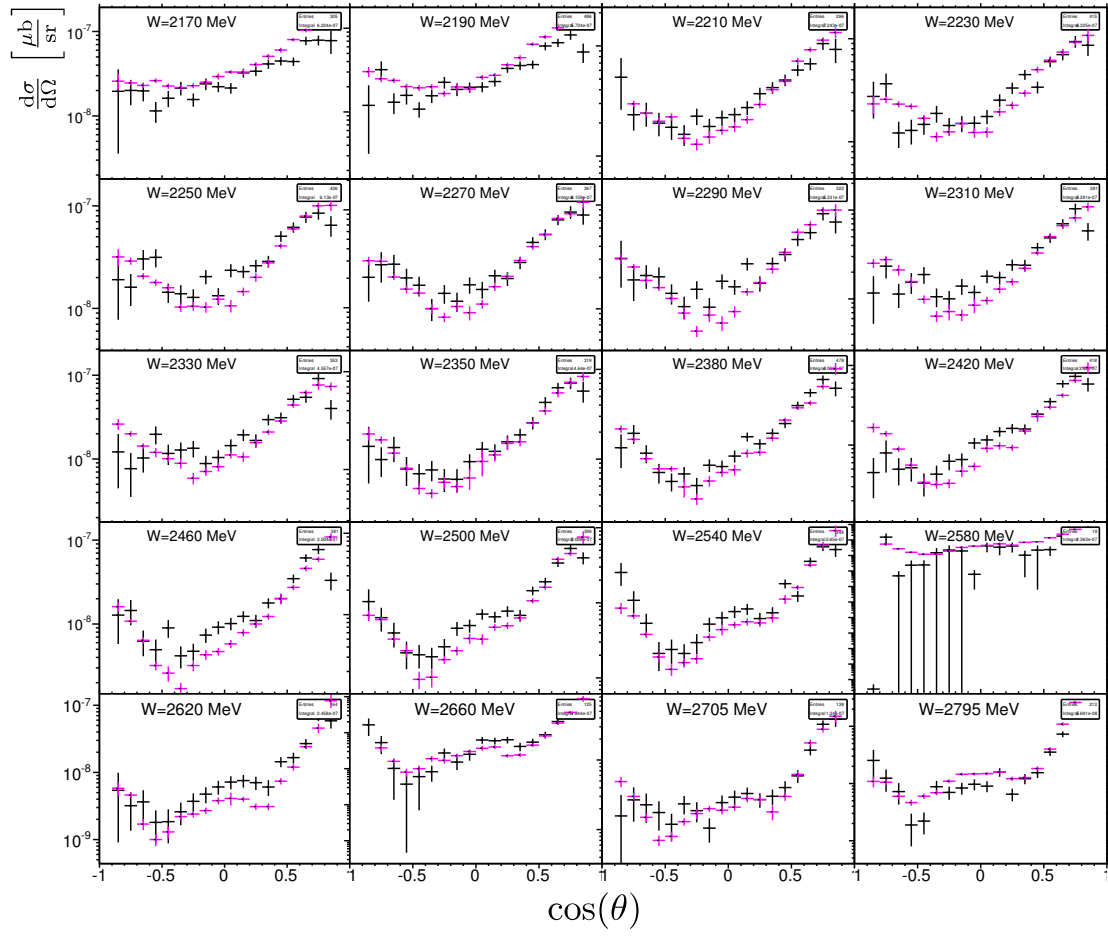


Figure 9: η' differential cross section. **Pink:** g11 data, published by Mike Williams, **Black:** this work on g12 data