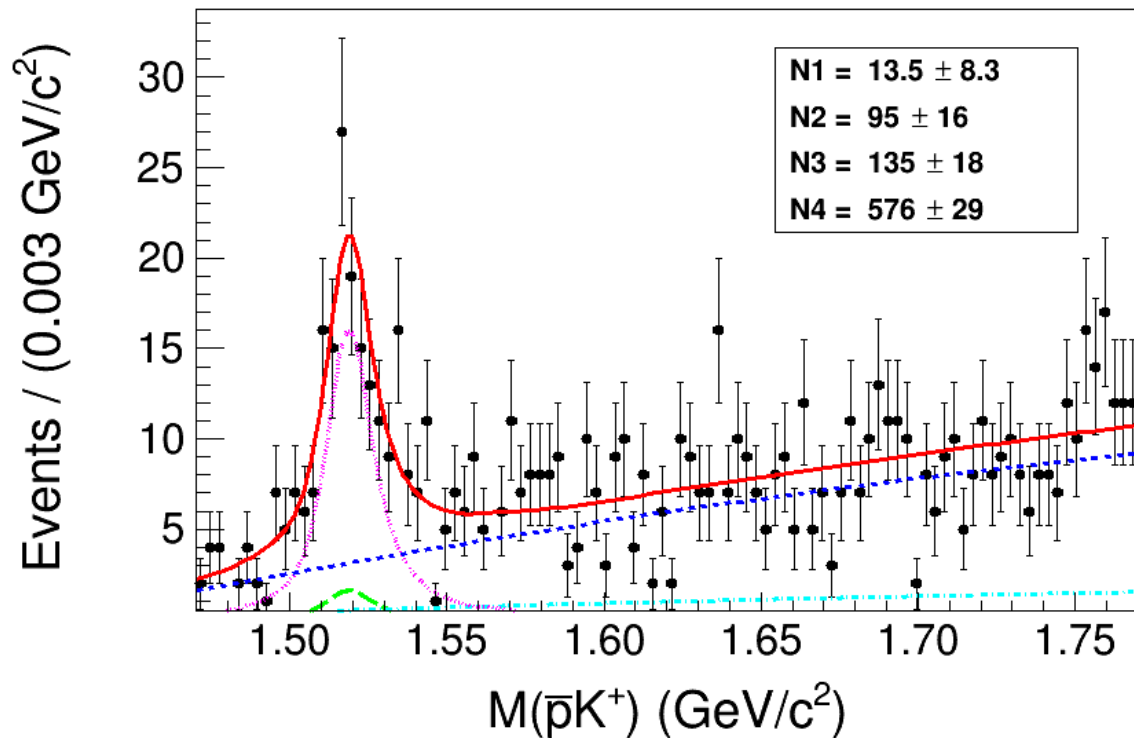
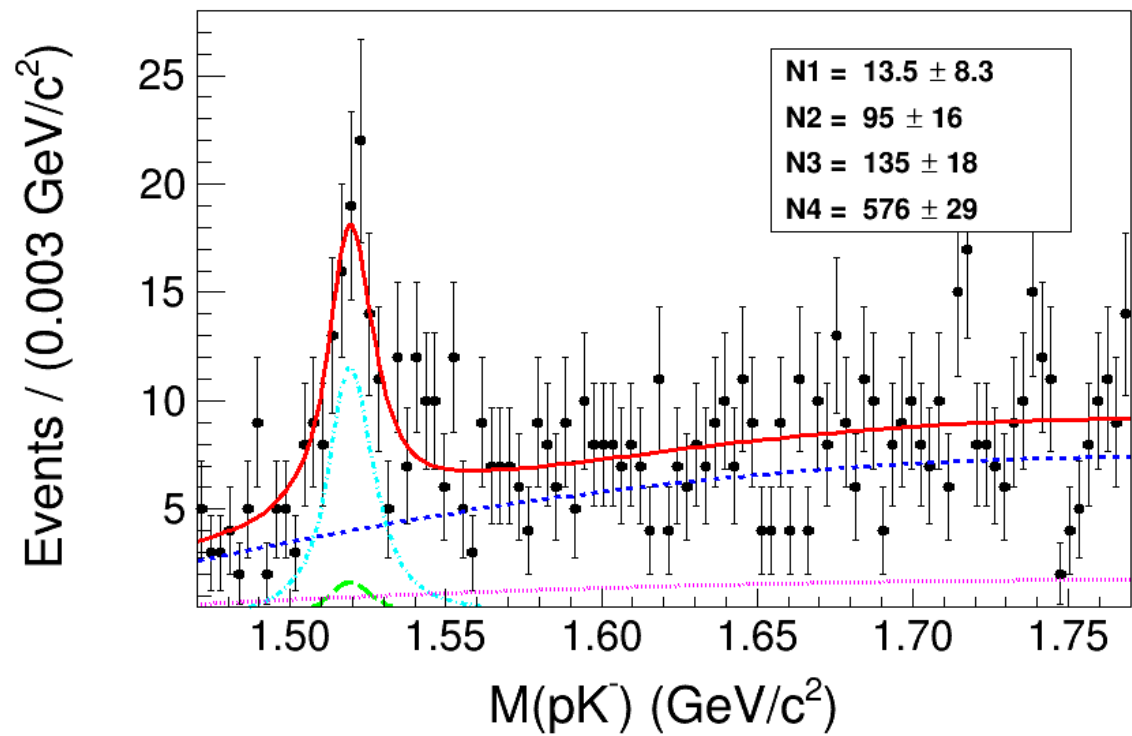
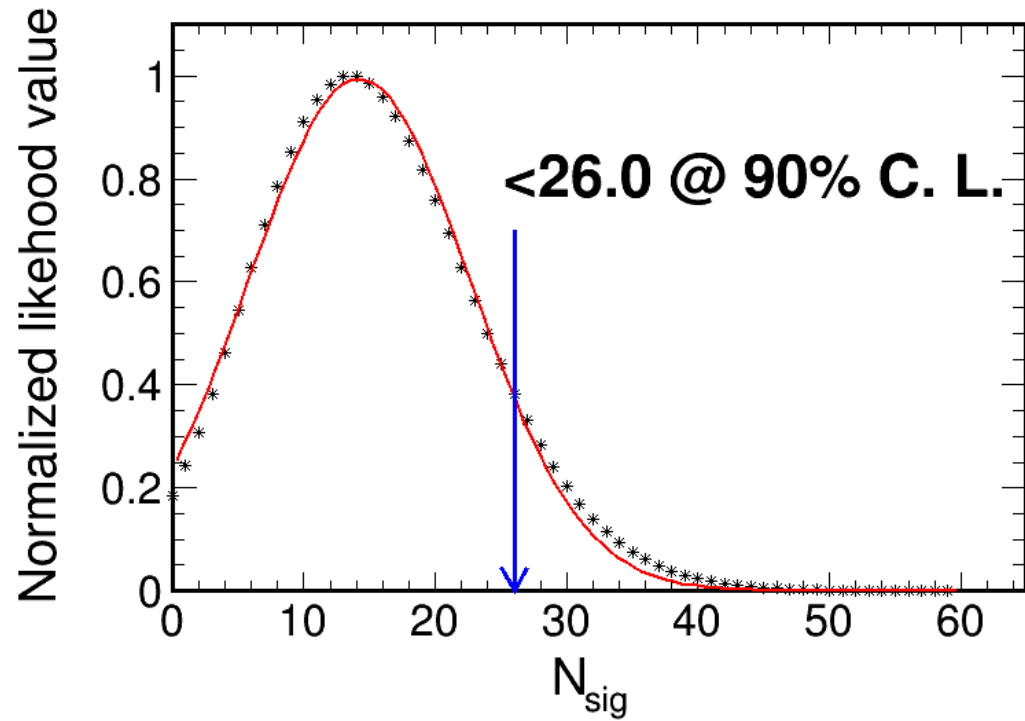


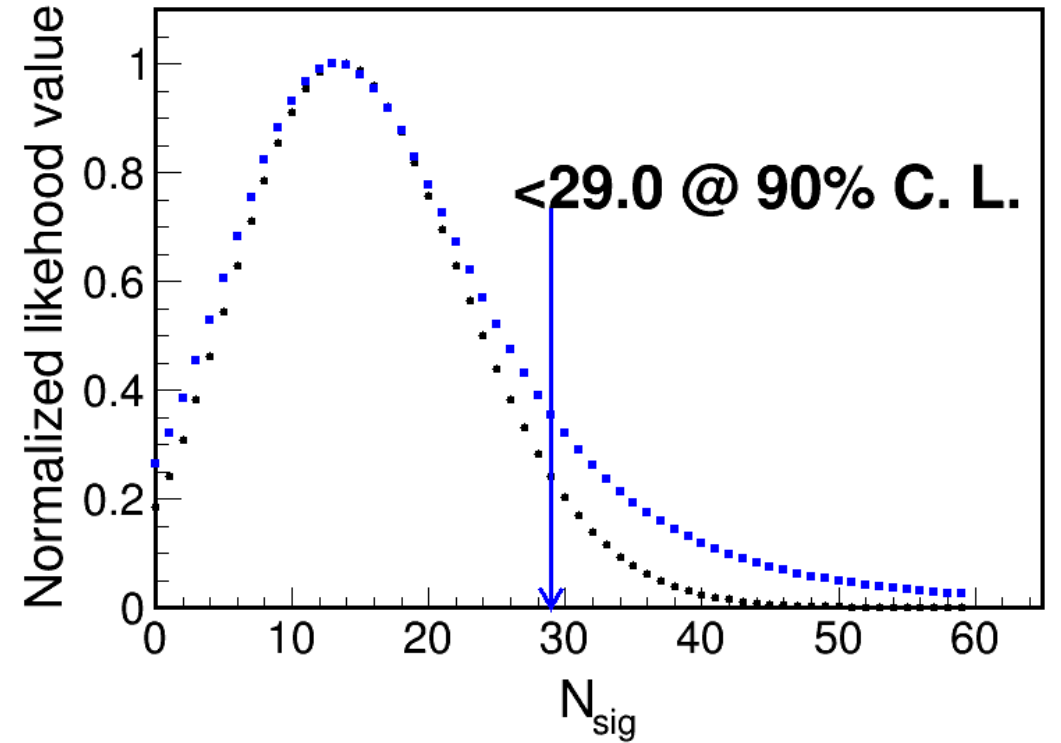
significance

Decay mode	significance
$\chi_{c1} \rightarrow pp\phi$	3.62779σ
$\chi_{c1} \rightarrow \Lambda(1520)\bar{\Lambda}(1520)$	1.83848σ





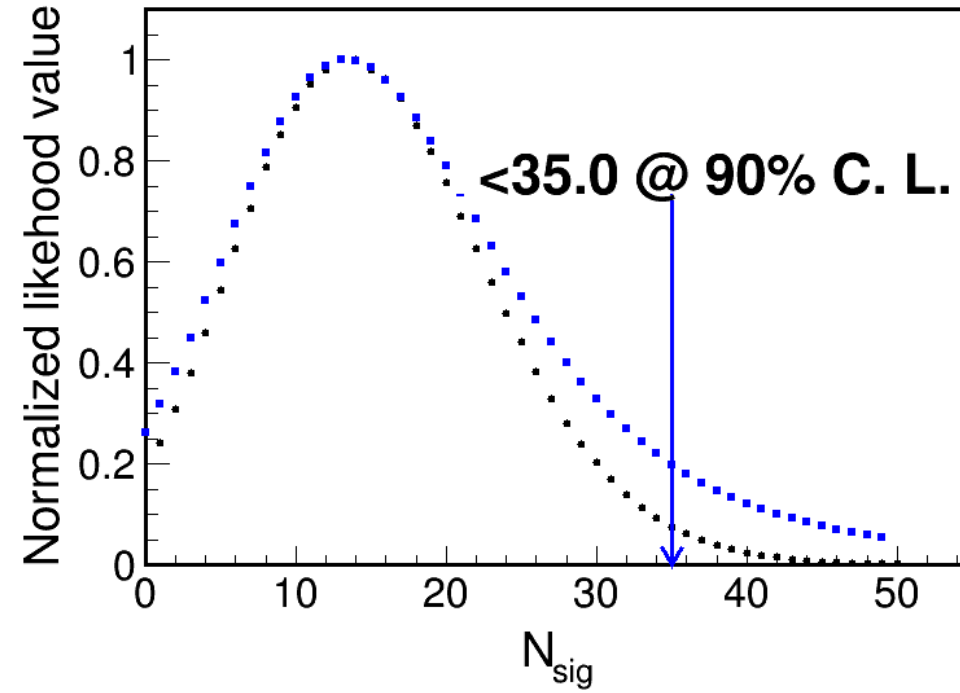
The likelihood distribution before and **before** smearing the Gaussian function



The likelihood distribution before and **after** smearing the Gaussian function

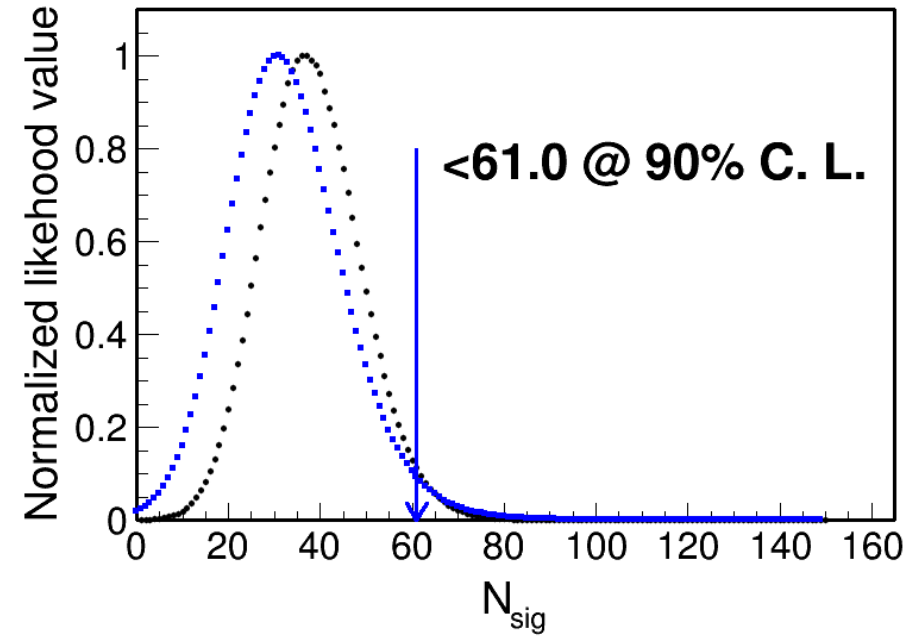
$$B_r < \frac{N_{UL}}{N_{\psi(2S)} \times \varepsilon \times B_r(\psi(2S) \rightarrow \gamma\chi_{c1}) \times B_r(\Lambda(1520) \rightarrow pk)^2} = 5.85 \times 10^{-5}$$

$\chi_{c1} \rightarrow \Lambda(1520)\bar{\Lambda}(520)$



$$B_r < \frac{N_{UL}}{N_{\psi(2S)} \times \varepsilon \times B_r(\psi(2S) \rightarrow \gamma\chi_{c1}) \times B_r(\Lambda(1520) \rightarrow pk)^2} = 7.06 \times 10^{-5}$$

$\chi_{c1} \rightarrow p\bar{p}\phi$



$$B_r < \frac{N_{UL}}{N_{\psi'} * \varepsilon * B_r(\psi' \rightarrow \gamma\chi_{c1}) * B_r(\phi \rightarrow K^+K^-)} = 1.75 \pm 10^{-5}$$