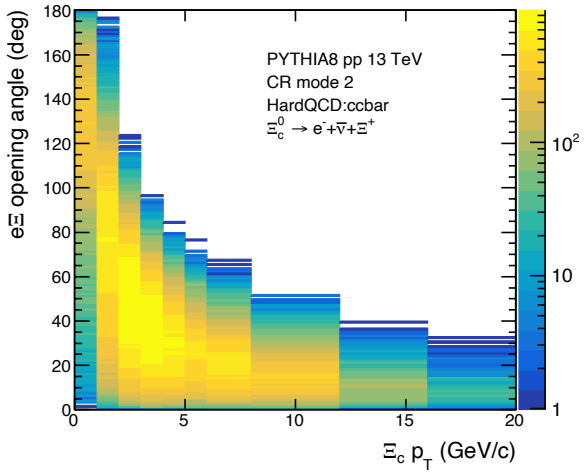
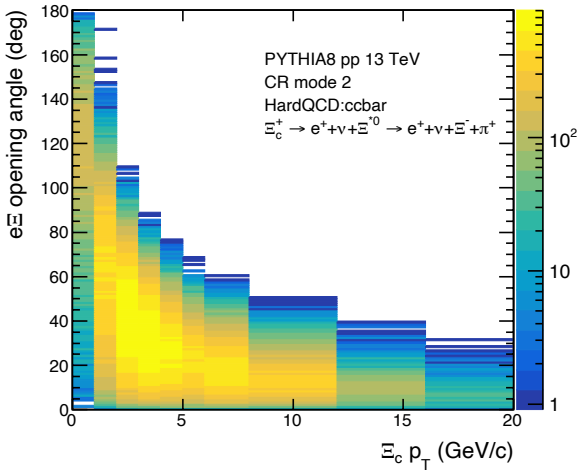
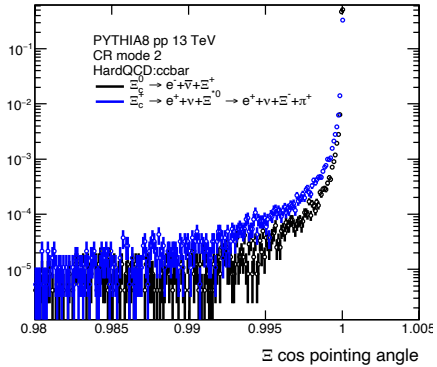
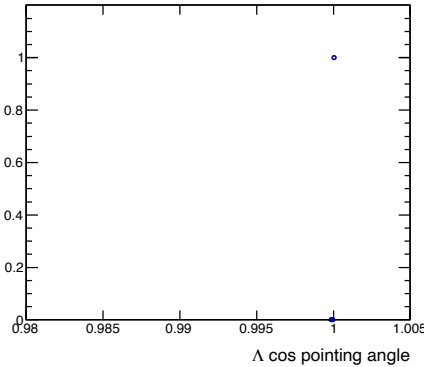
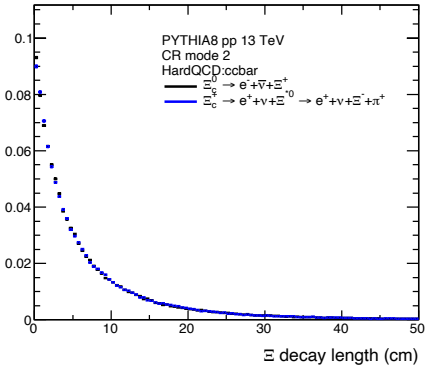
Cuts on truth level simulation

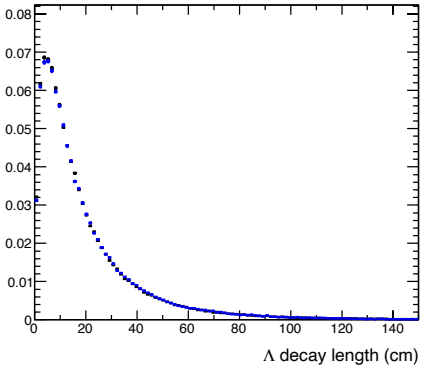




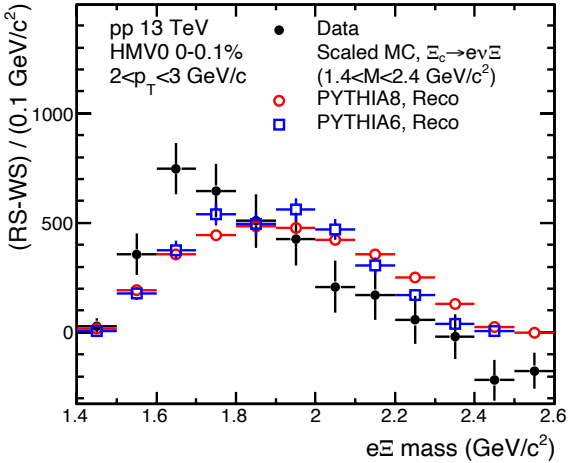


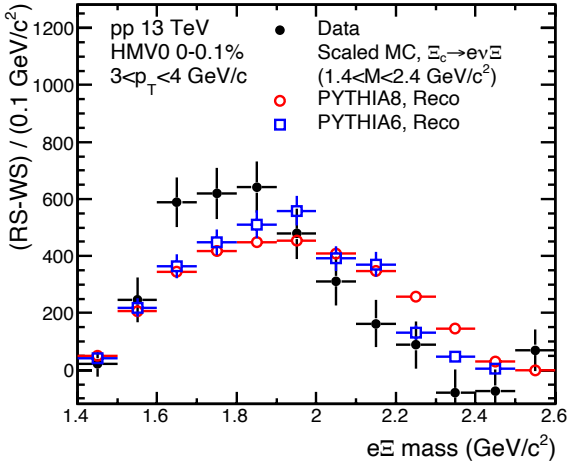


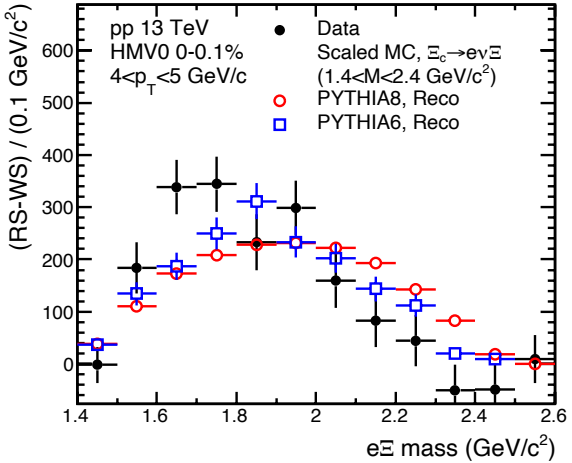


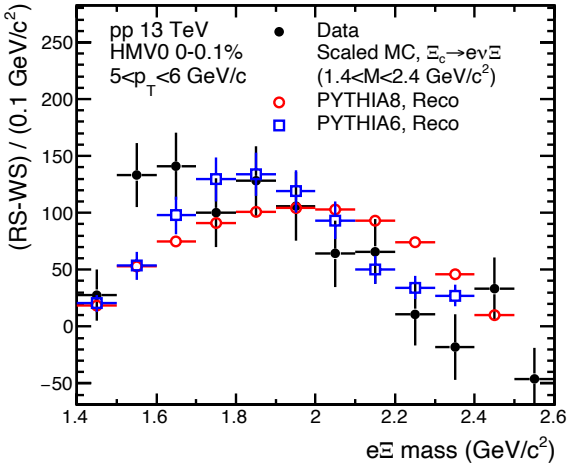


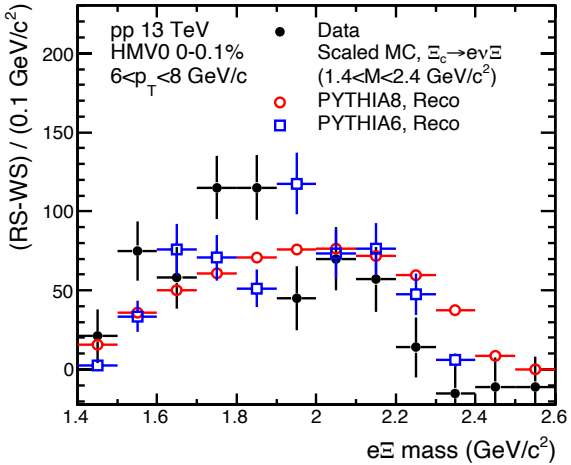
HMV0 0−0.1% (MC 3 decay, reco level)

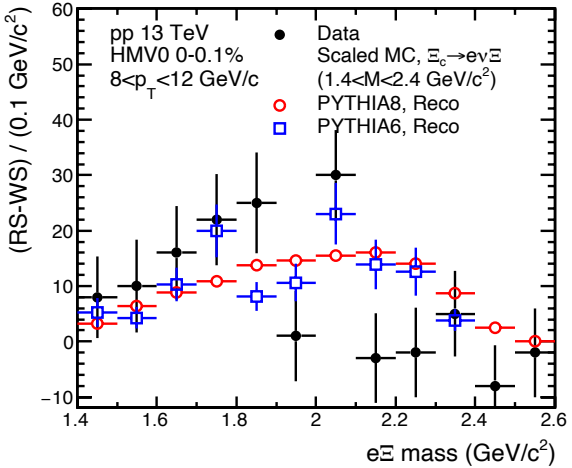




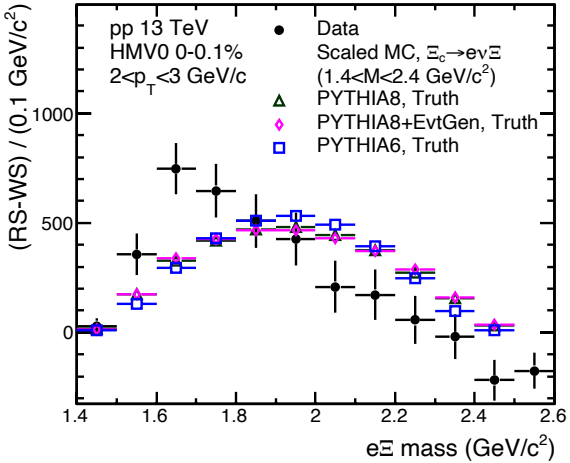


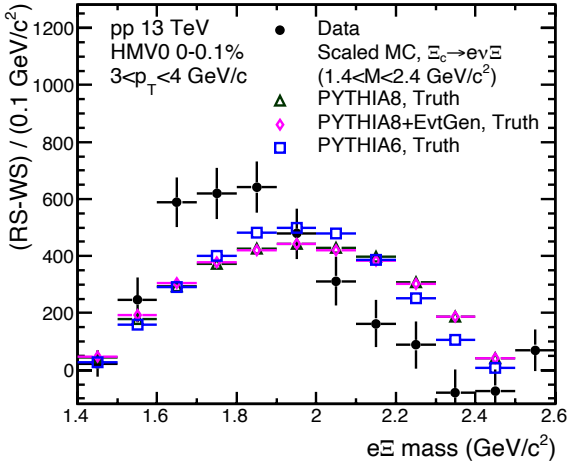


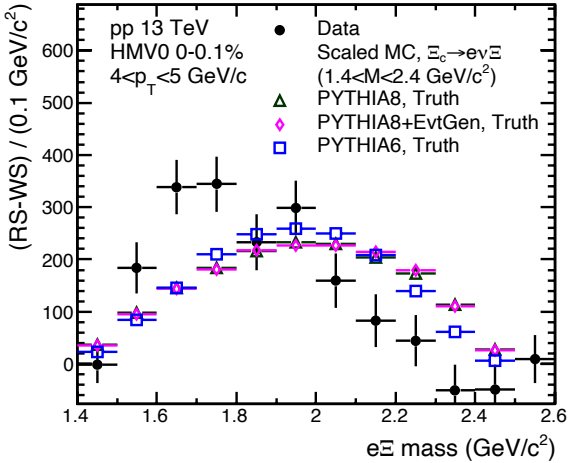


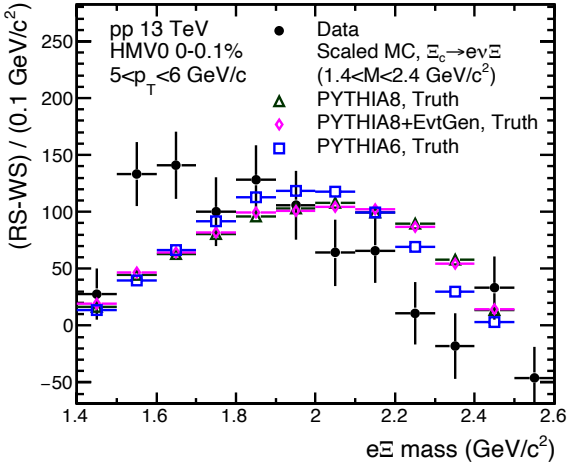


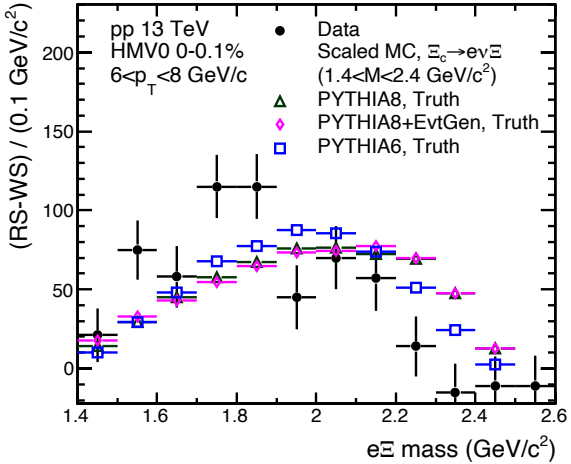
HMV0 0−0.1% (MC 3 decay, truth level)

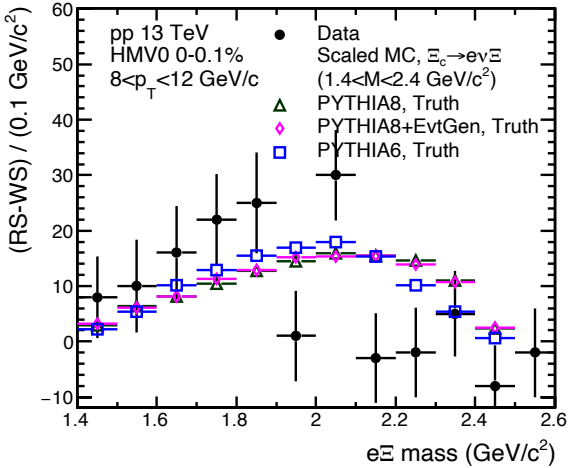




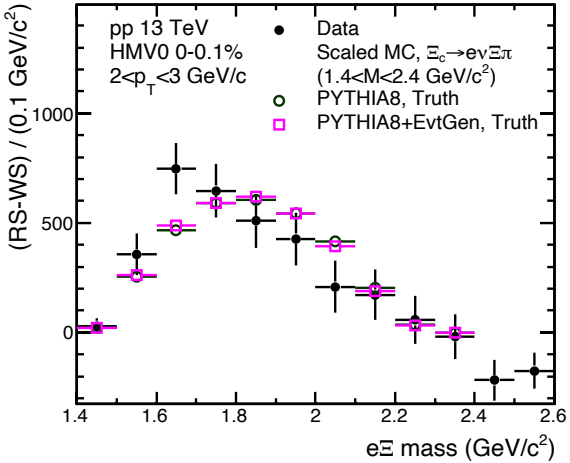


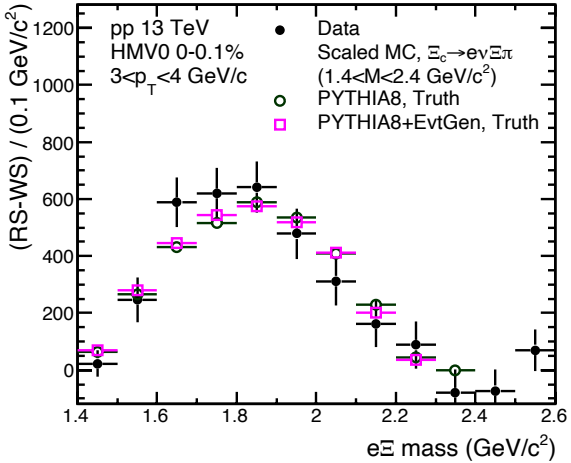


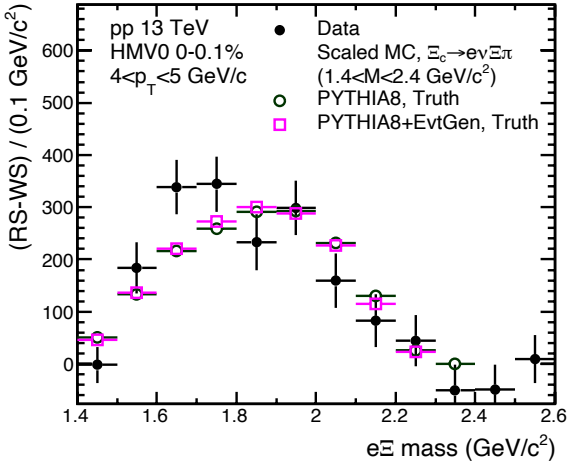


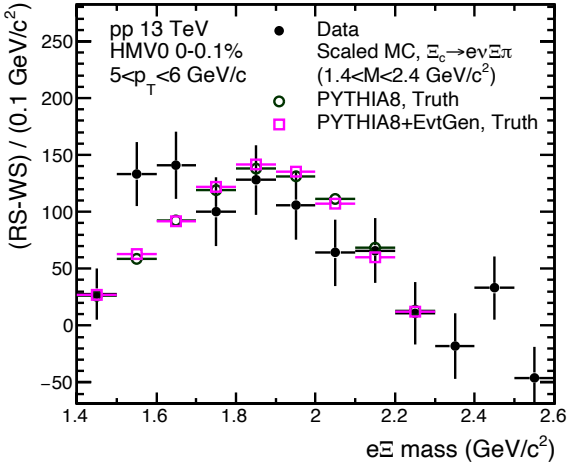


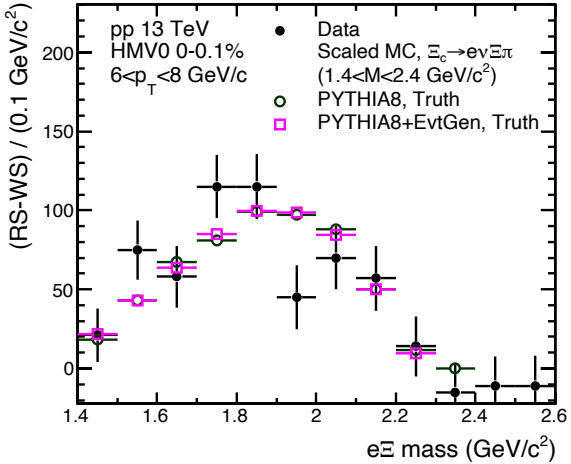
HMV0 0−0.1% (MC 4 decay, truth level)

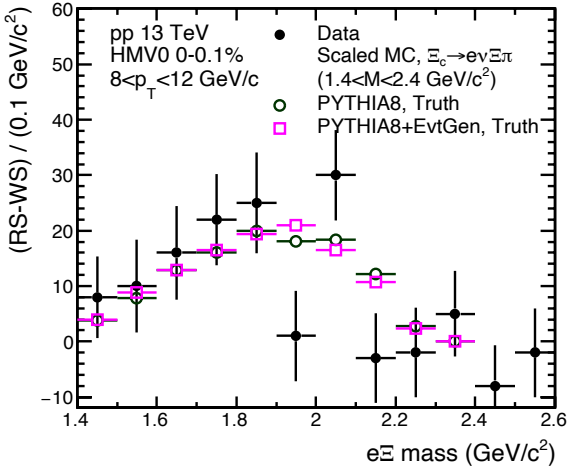




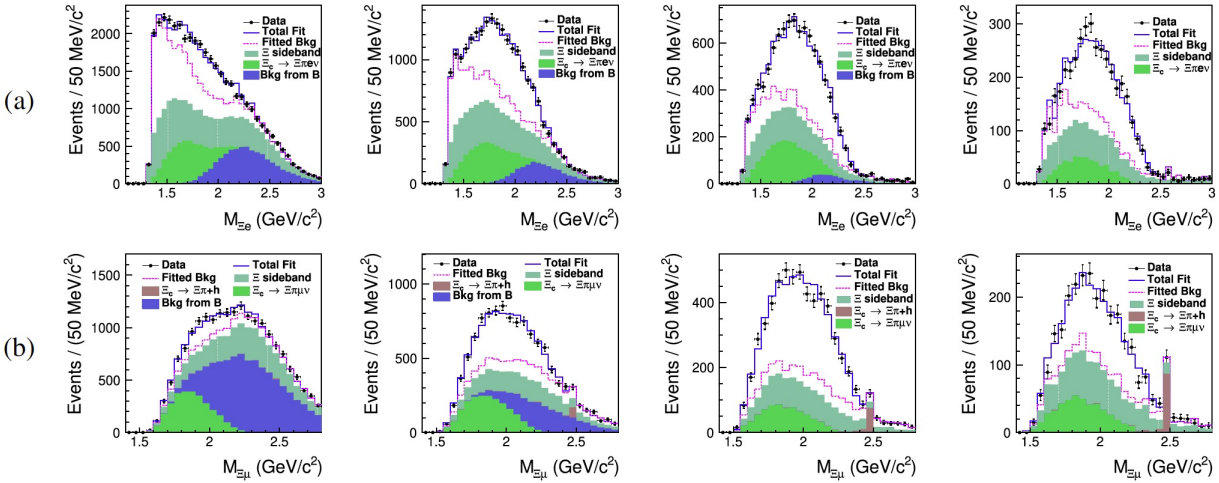








Results from Belle experiment (Phys. Rev. Lett. 127, 121803 (2021))



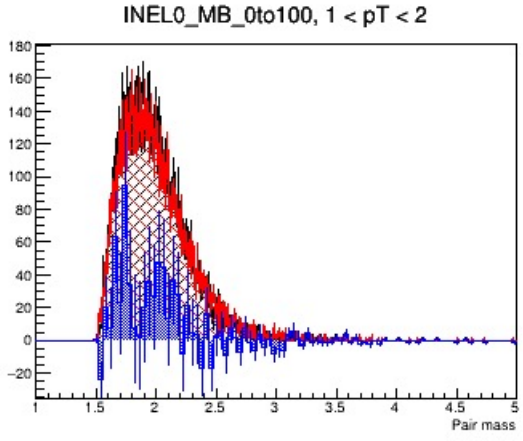
$p^*_{\Xi^-X}/p^*_{\max}$ region: (0.45, 0.55) (0.55, 0.65) (0.65, 0.75) (0.75,1)

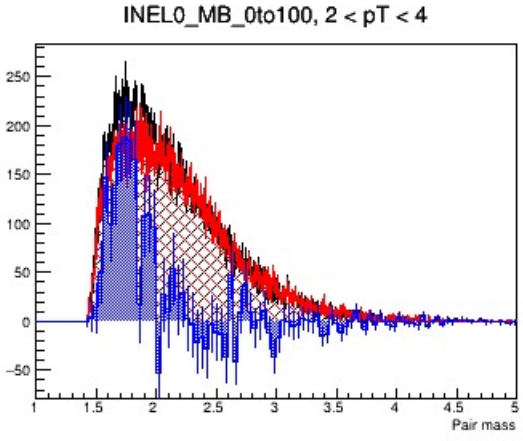
$p_f^*/p_{\max}^*$	$[\mathcal{B}(\Xi_c^0 \to \Xi^- \ell^+ \nu_\ell)/\mathcal{B}(\Xi_c^0 \to \Xi^- \pi^+)]$
$\Xi_c^0 \to \Xi^- e^+ \nu_e$	0.730 ± 0.021
$\Xi_c^0 \to \Xi^- \mu^+ \nu_\mu$	0.708 ± 0.033

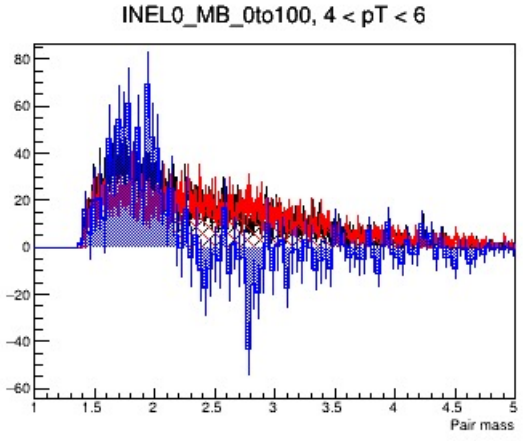
ALICE results

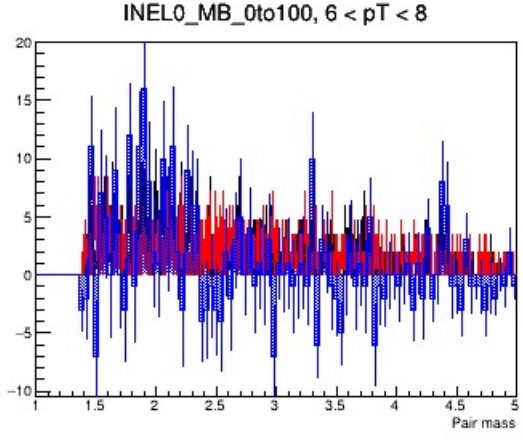
measurement of the Ξ_c^0-baryon cross sections, not ed by the BRs, in the two different decay channels allowed the computation of the $\mathrm{BR}(\Xi_c^0 \to \Xi^- e^+ \nu_e)/\mathrm{BR}(\Xi_c^0 \to \Xi^- \pi^+)$ ratio. The p_T -dependent ratio of the two measurements, which was observed to be flat in p_T [49], was averaged over p_T using the inverse uncorrelated relative uncertainties as weights [53]. The final systematic uncertainty on the ratio was obtained by summing in quadrature the p_T-correlated and uncorrelated systematic uncertainties. The measured ratio is $\mathrm{BR}(\Xi_c^0 \to \Xi^- e^+ \nu_e)/\mathrm{BR}(\Xi_c^0 \to \Xi^- \pi^+) = 1.38 \pm 0.14(\mathrm{stat}) \pm 0.22(\mathrm{syst})$. The result is consistent with the global average reported by the PDG (1.3 ± 0.8) [30] and has a total uncertainty reduced by a factor of 3. The result is also consistent with the one released by the Belle Collaboration [54].

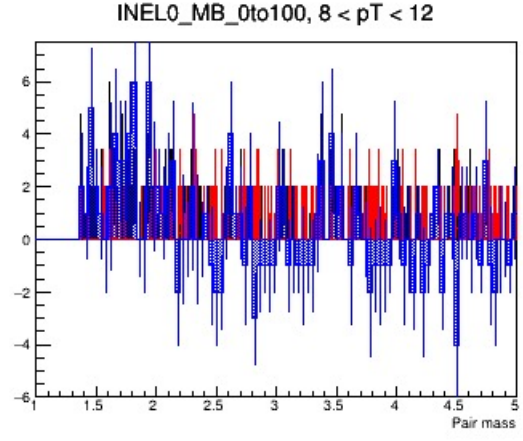
Background subtraction (MB)

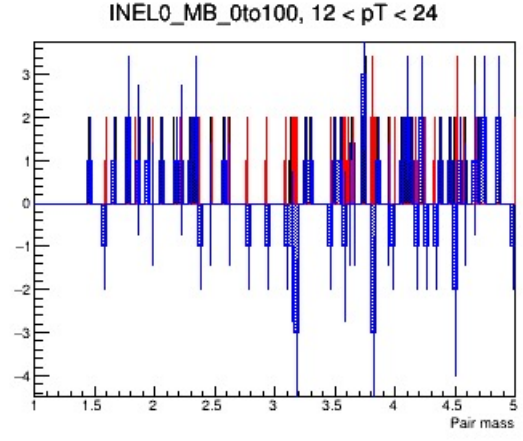












Background subtraction (HMV0)