

Lambda Hyperon in Xe+W

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(for the MPD Collaboration)

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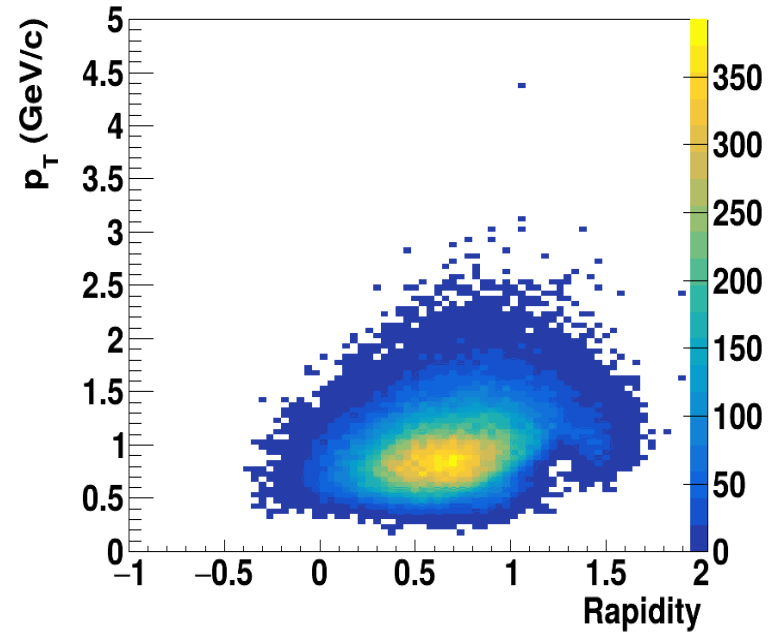
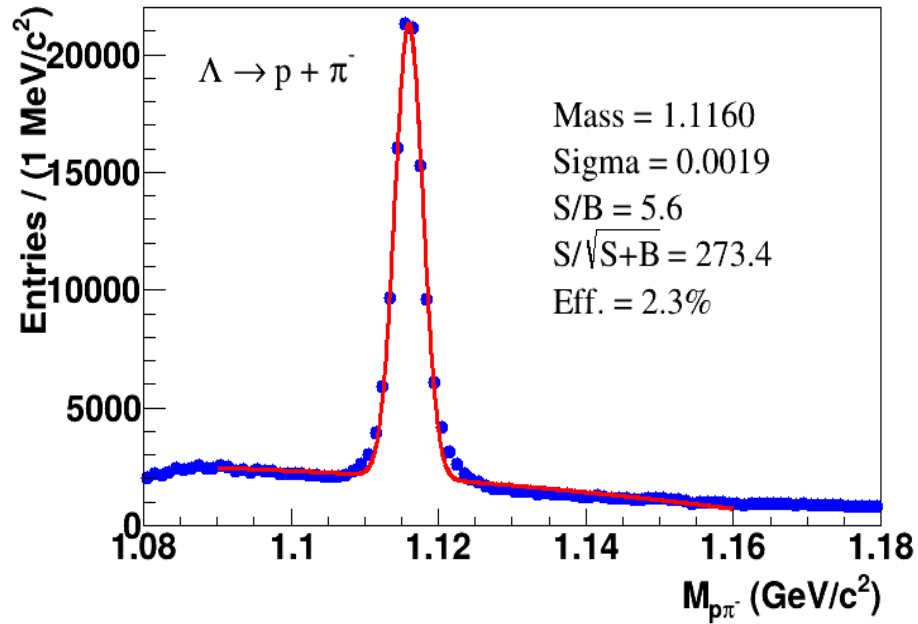
Data Set

- ✓ **Generator: UrQMD** /eos/nica/mpd/sim/data/exp/dst-XeW-02.5GeV-mp08-24-500ev-req35/XeW/02.5GeV-ft/urqmd/XeW-02.5GeV-mp08-24-500ev-req35/urqmd-XeW-02.5GeV-mb-eos0-500-.....reco.root
- ✓ **Reconstruction & Analysis:** hyperon wagon in the analysis train

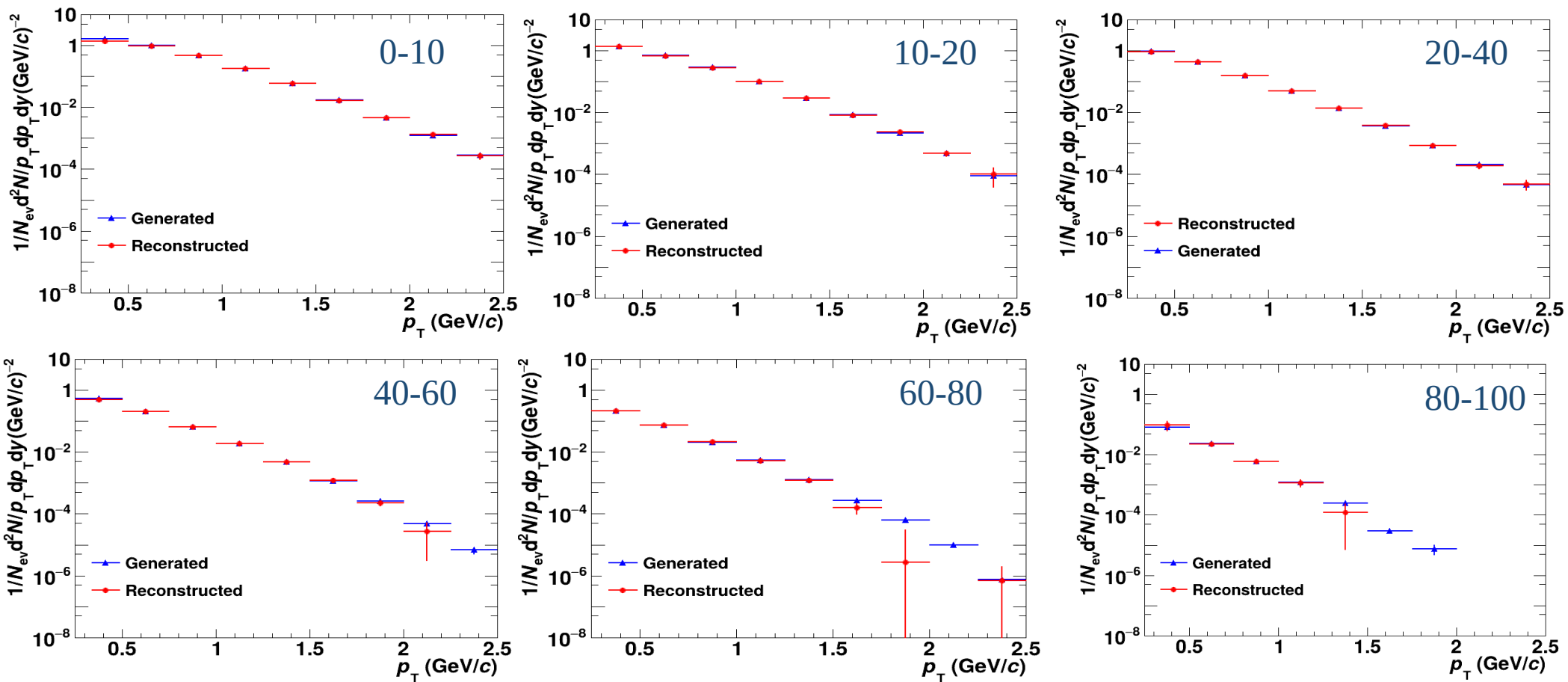
Selection cuts

- ✓ $l0.chi2s[][0] > 25.0$ – normalized Π^- -to-primary vertex impact parameter
- ✓ $l0.chi2s[][1] > 11.$ – normalized proton-to-primary vertex impact parameter
- ✓ $l0.chi2h < 10.$ – χ^2 of secondary vertex reconstruction
- ✓ $l0.dsth < 0.8$ – distance of the closest approach
- ✓ $l0.path > 3.$ – lambda decay path
- ✓ $l0.angle < 0.04$ – lambda momentum and primary-to-secondary vertex vector noncollinearity

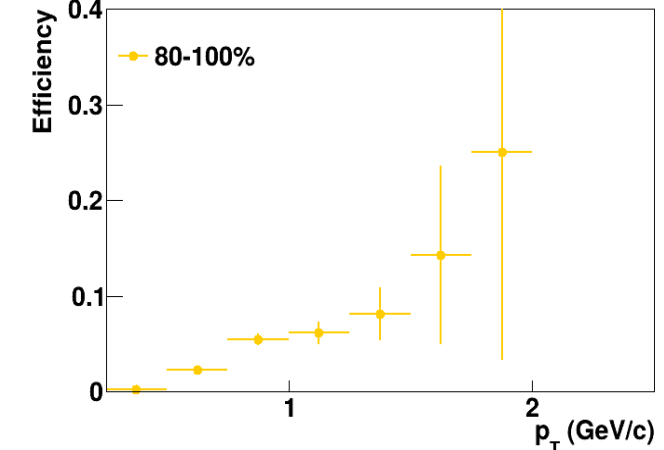
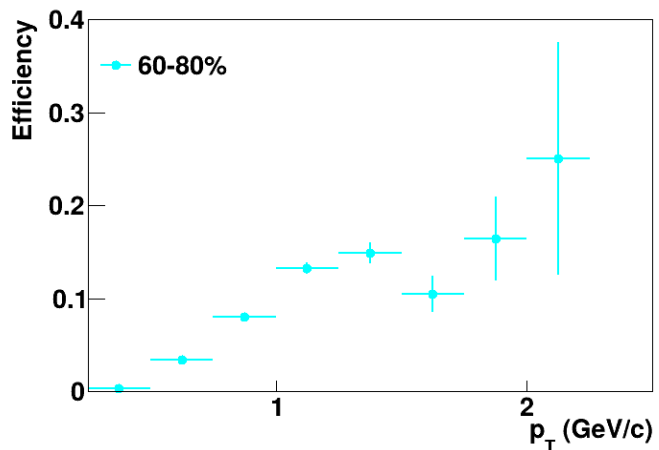
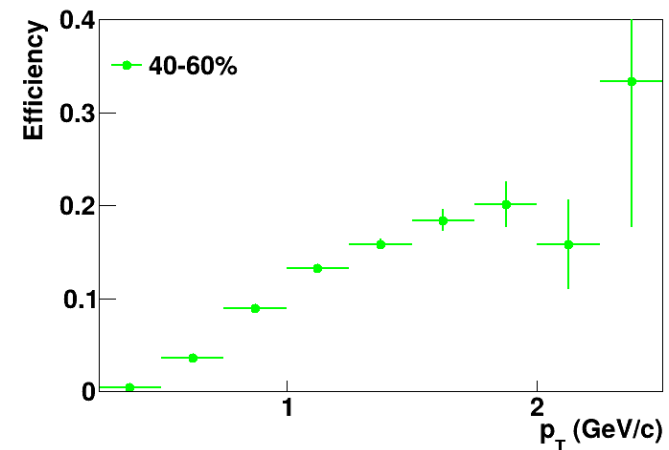
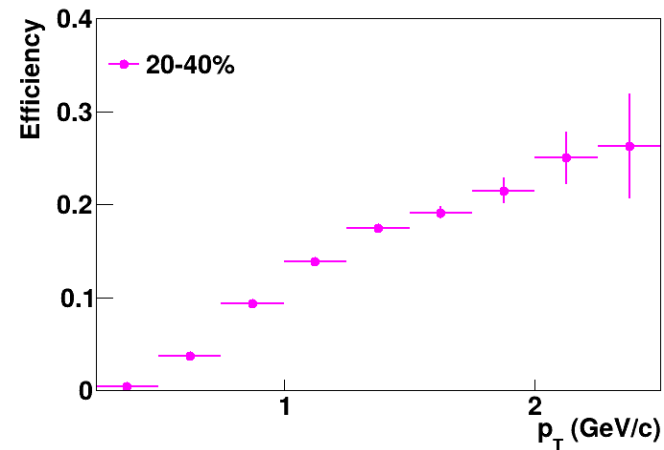
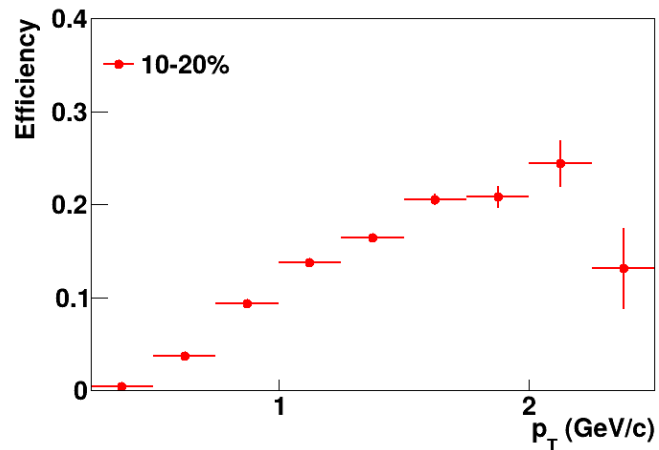
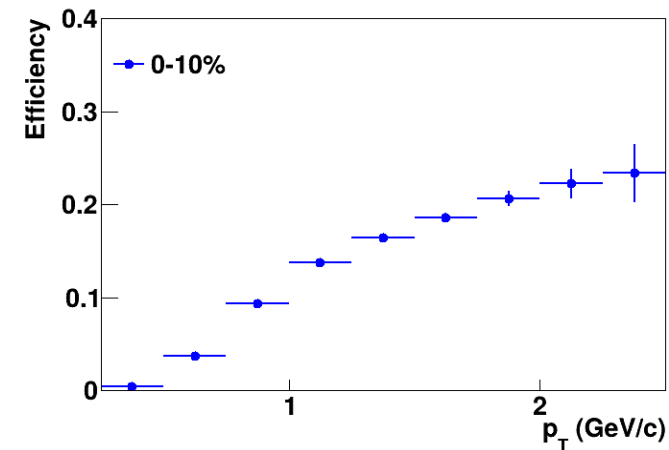
Invariant mass Λ and Phase Space

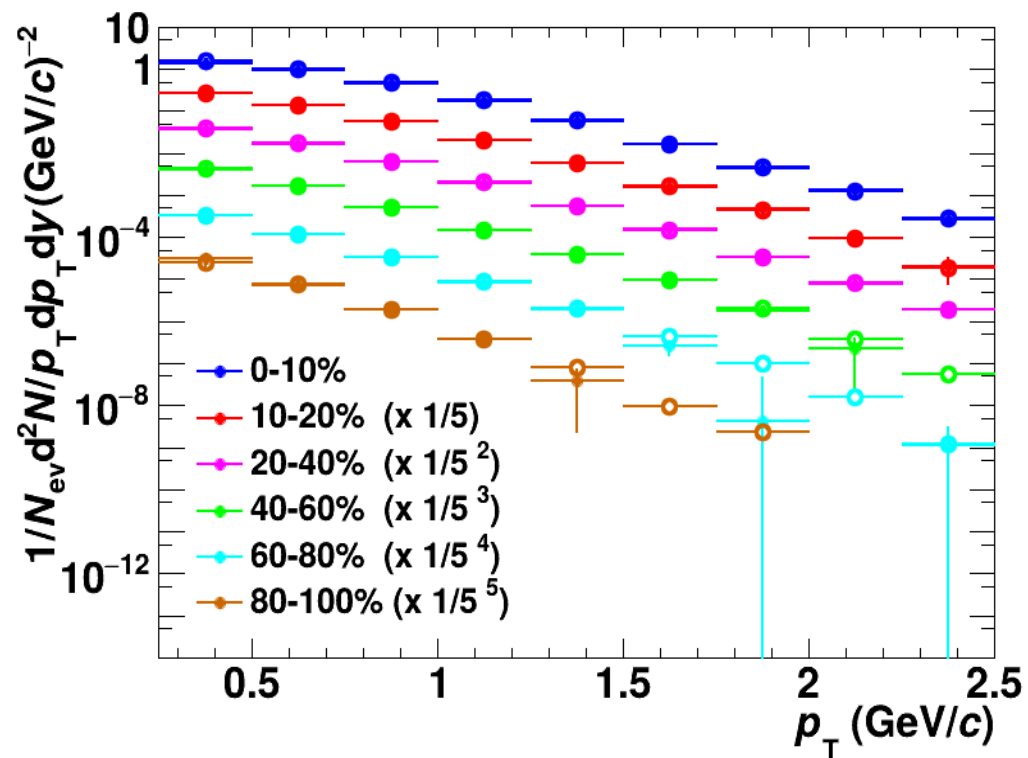


Invariant p_T -spectrum of Λ in centrality bins



Efficiency





The end