

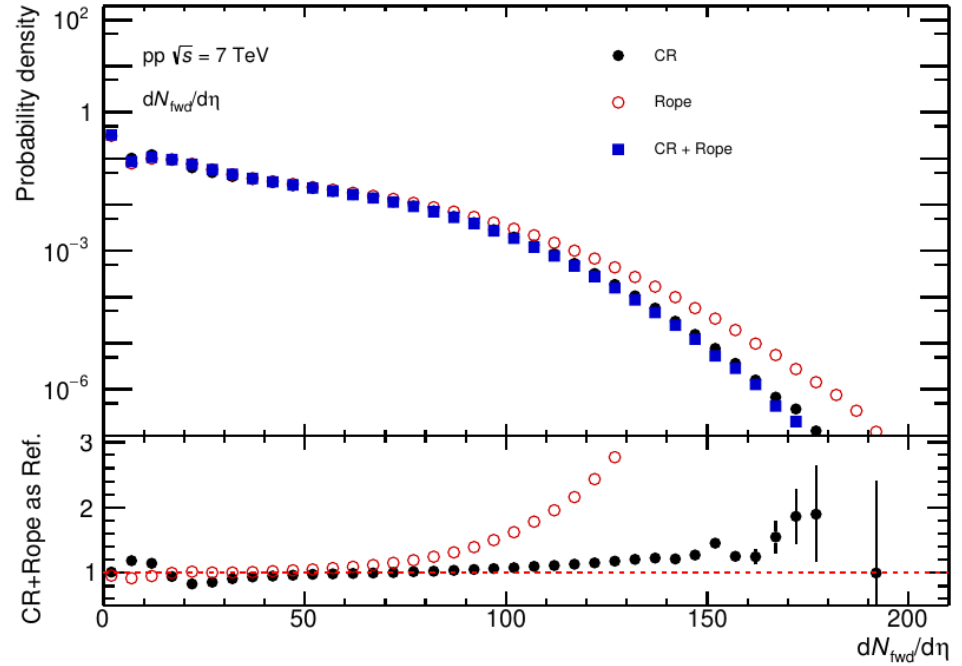
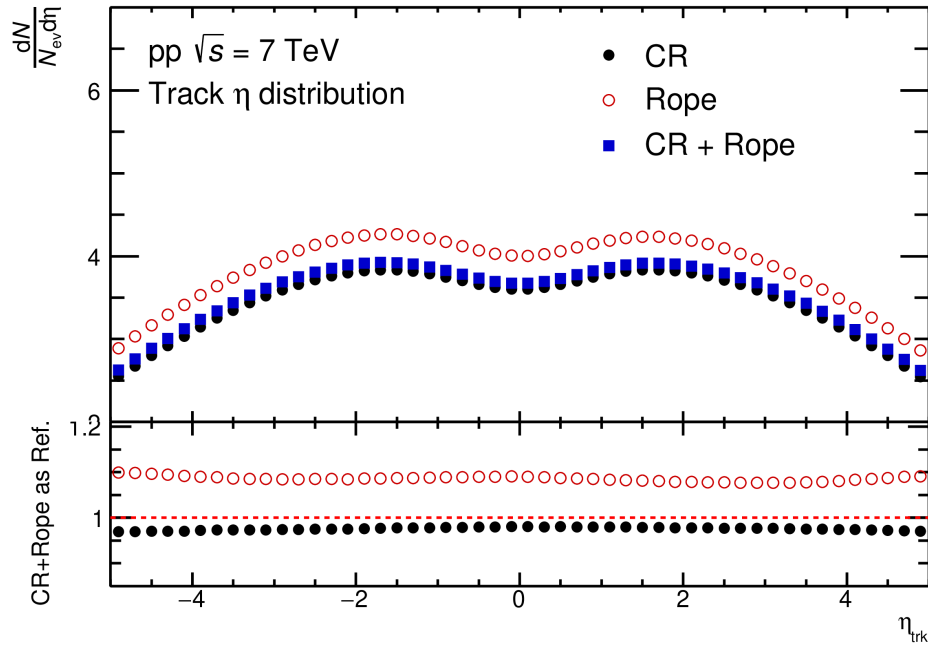
Study strange particle in jet

150 M events pp 7 TeV

New updated

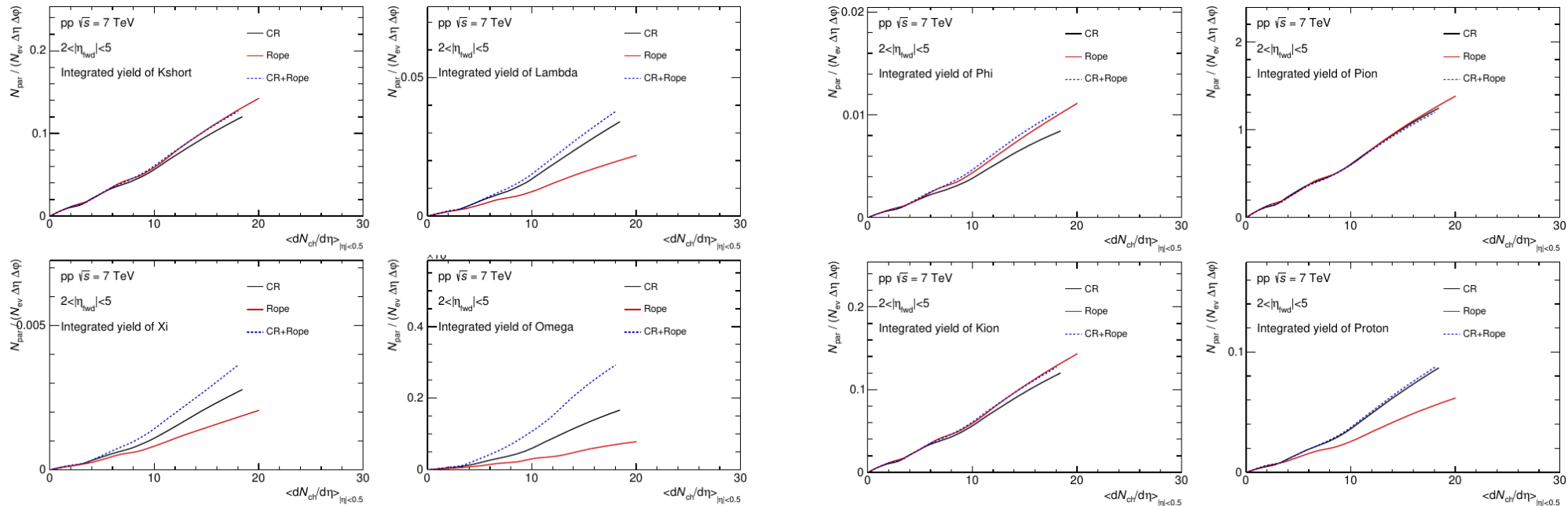
To be updated

Tracks



- Track eta distribution in MB events
- Forward tracks $dN_{d\eta}$ distribution

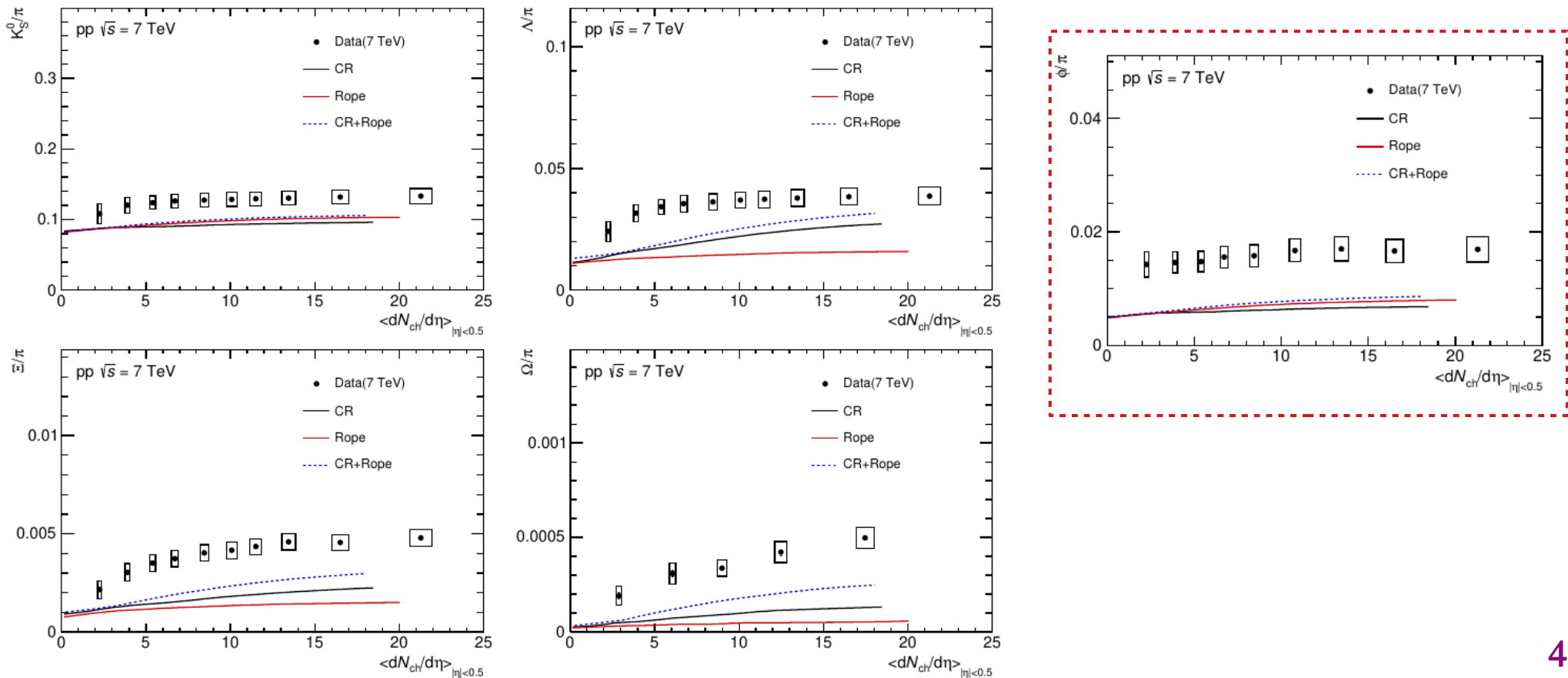
Integrated yield vs $\langle dN_{ch}/d\eta \rangle$



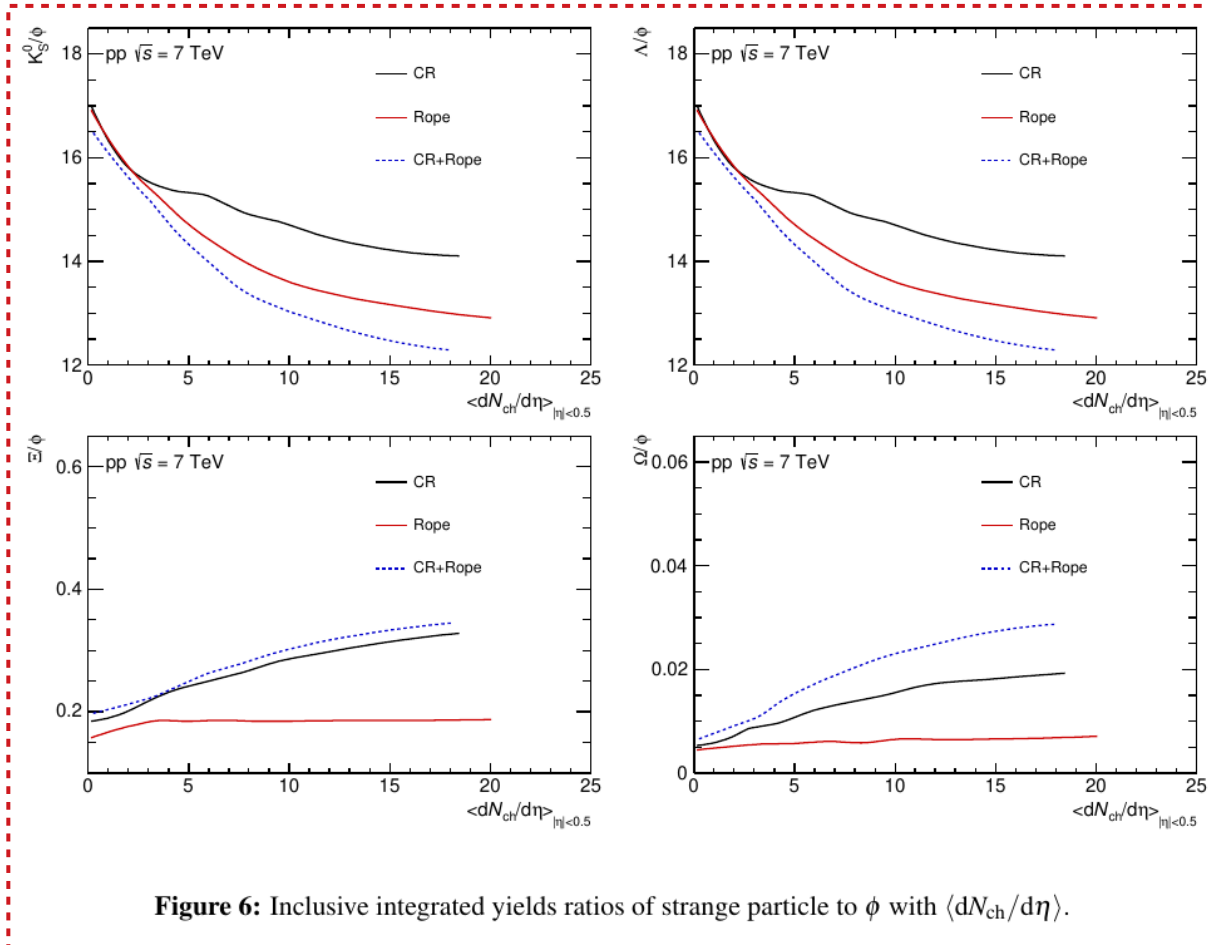
- Integrated yield of some interest particles (compare to Data)

Particle-to-pion ratios with $\langle dN_{ch}/d\eta \rangle$

Figure 5: Inclusive integrated yields ratios of strange particle to π with $\langle dN_{ch}/d\eta \rangle$. (Data taken from arXiv:1606.07424v2 and arXiv:1807.11321v2)



Strange particle to phi ratio with $\langle dN_{\text{deta}} \rangle$



Strange baryon to baryon ratio with $\langle dN_{\text{ch}}/d\eta \rangle$

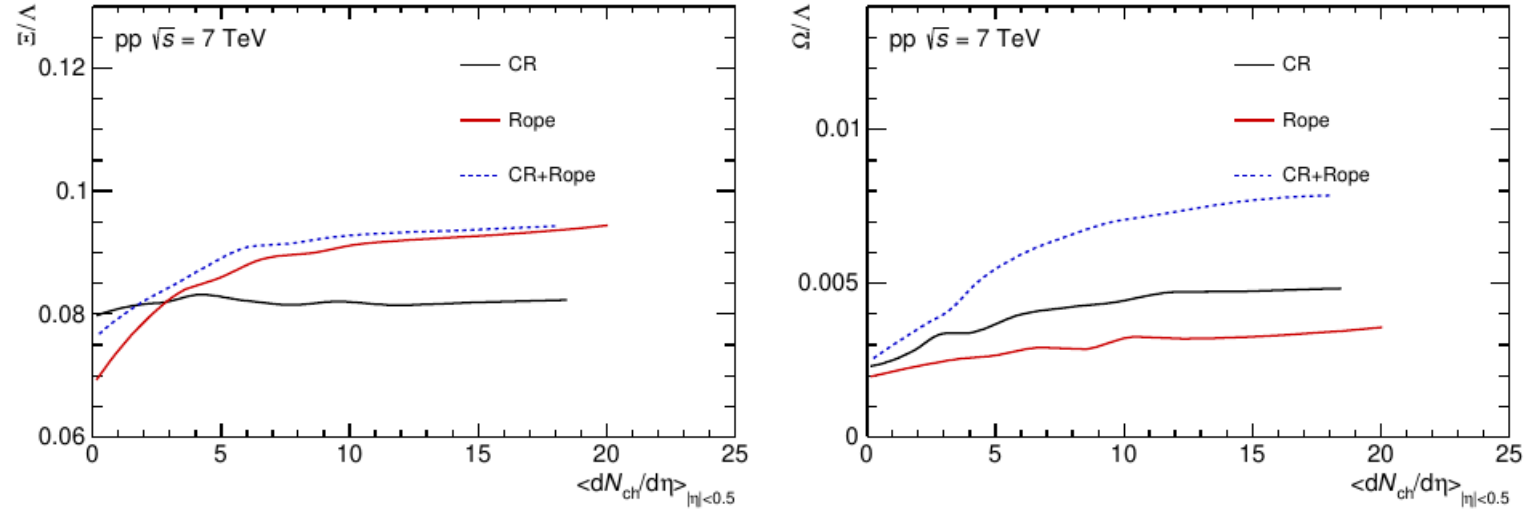
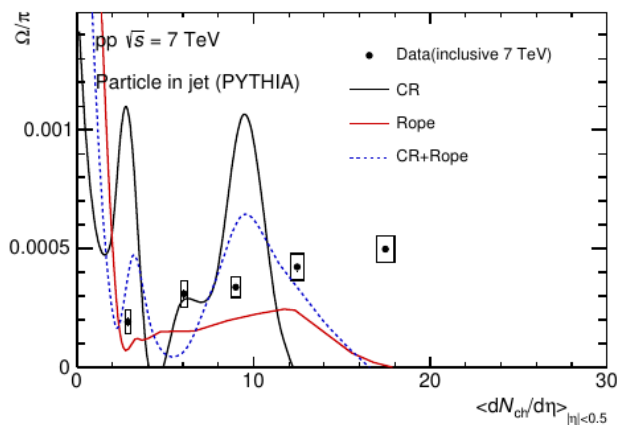
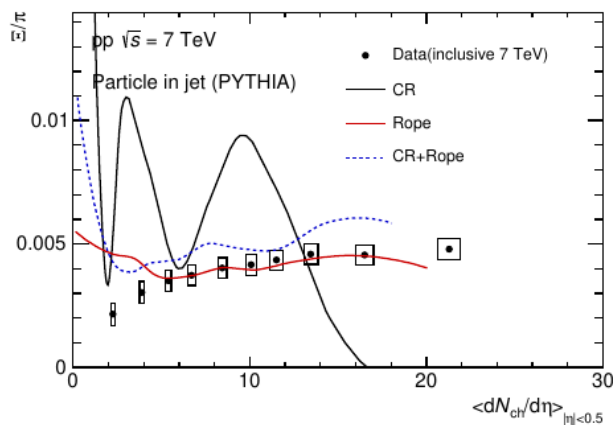
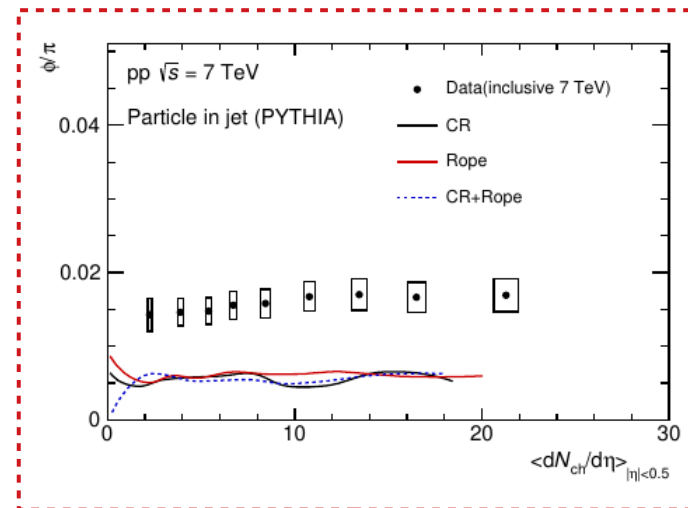
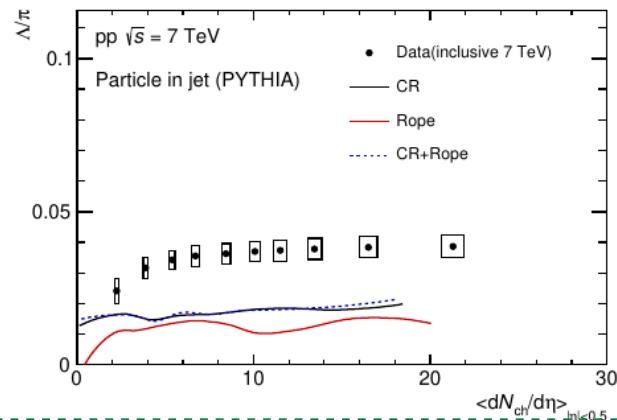
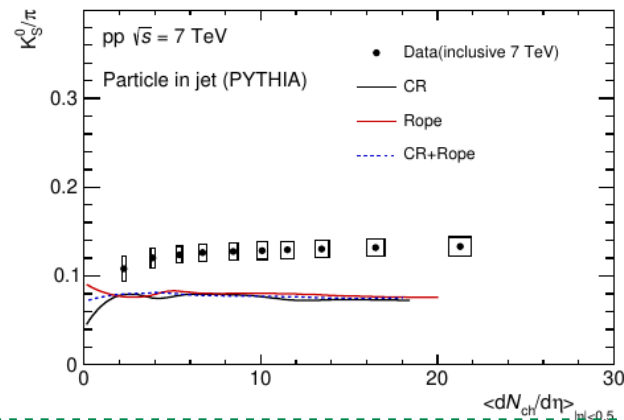


Figure 7: Inclusive integrated yields ratios of strange baryon to baryon with $\langle dN_{\text{ch}}/d\eta \rangle$.

Particle-to-pion ratios in jet with $\langle dN_{\text{deta}} \rangle$

Figure 8: Integrated yields ratios in jet of strange particle to π with $\langle dN_{\text{ch}}/d\eta \rangle$. (Data taken from arXiv:1606.07424v2 and arXiv:1807.11321v2)



- Kshort, Lambda and phi to pion ratio almost independent with $\langle dN_{\text{deta}} \rangle$
- Xi and Omega still lack of statistics

Inclusive particle ratio with p_T distribution

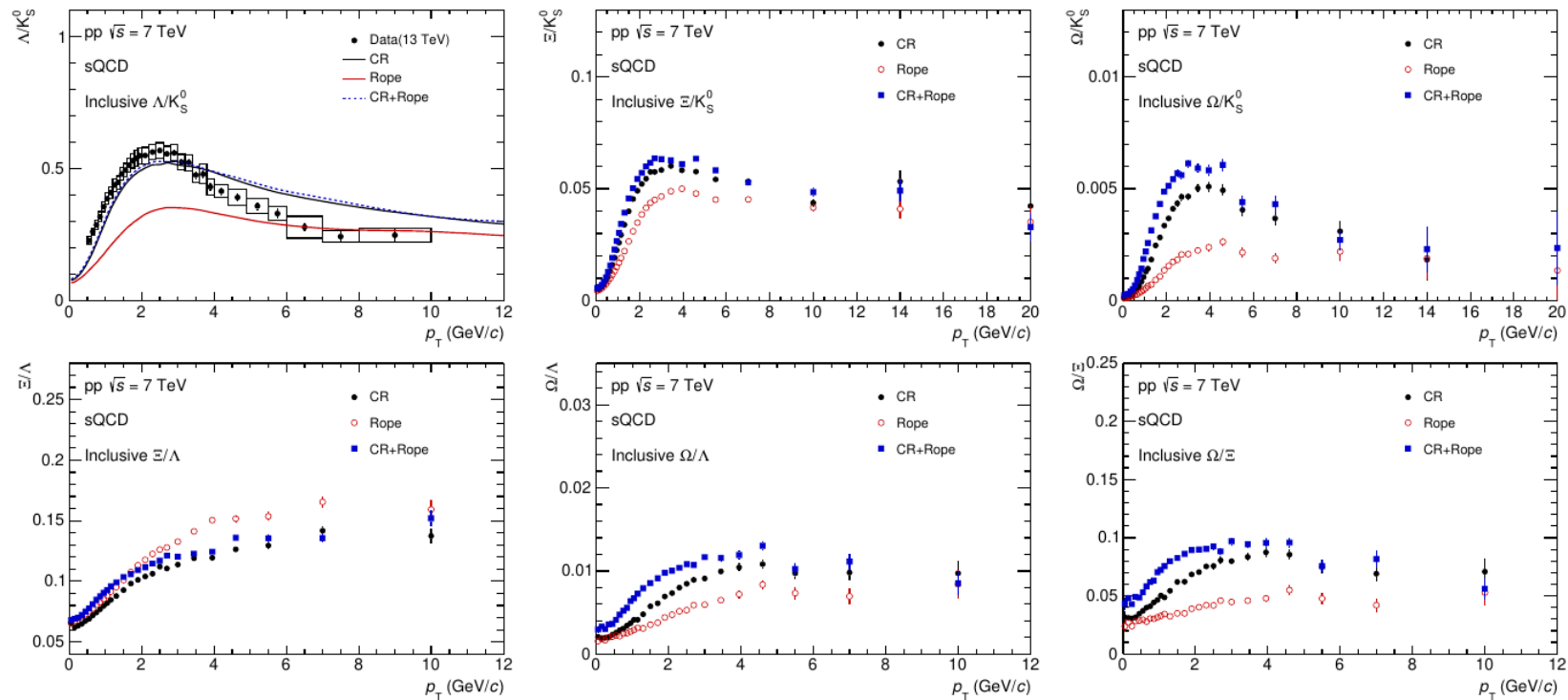


Figure 9: Inclusive baryon-to-meson ratio(top) and Baryon-to-meson ratio(bottom) with p_T distribution. (Only find data point of Lambda/Kshort in 13 TeV from arXiv:2005.11120)

Inclusive particle ratio with p_T distribution

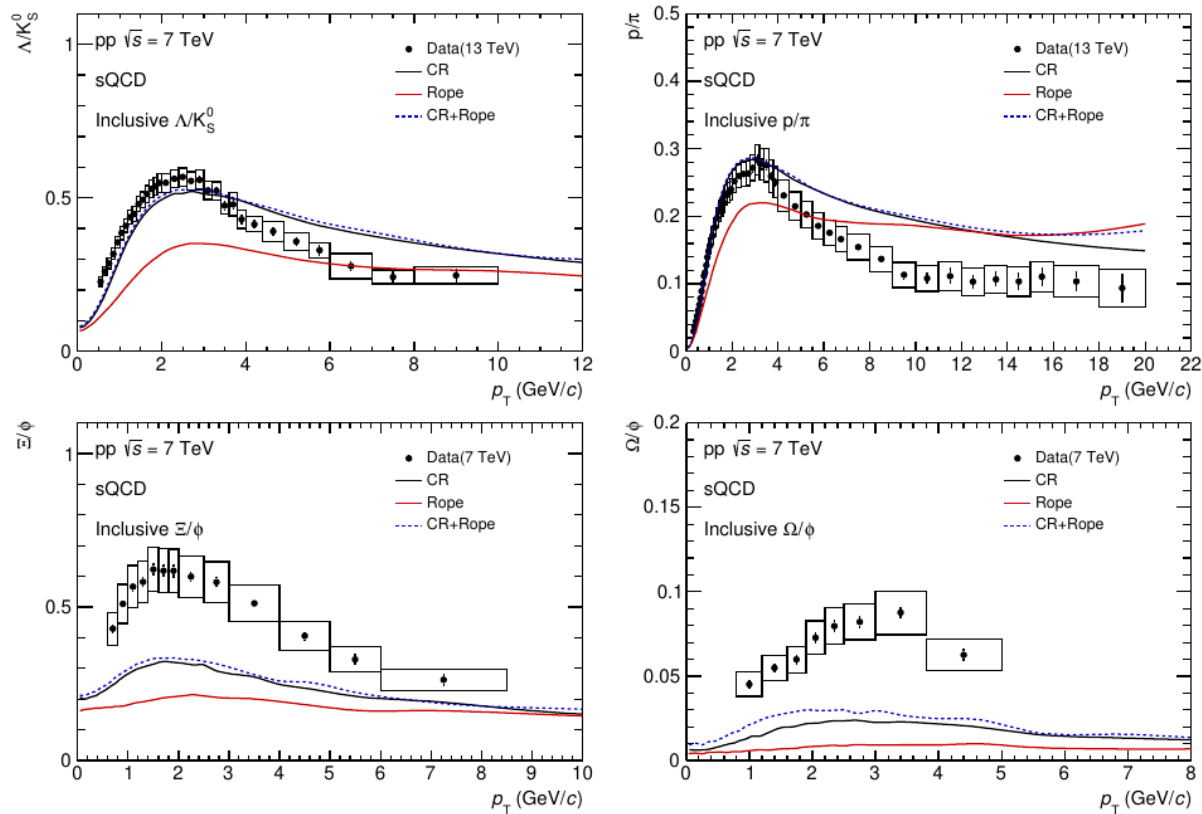
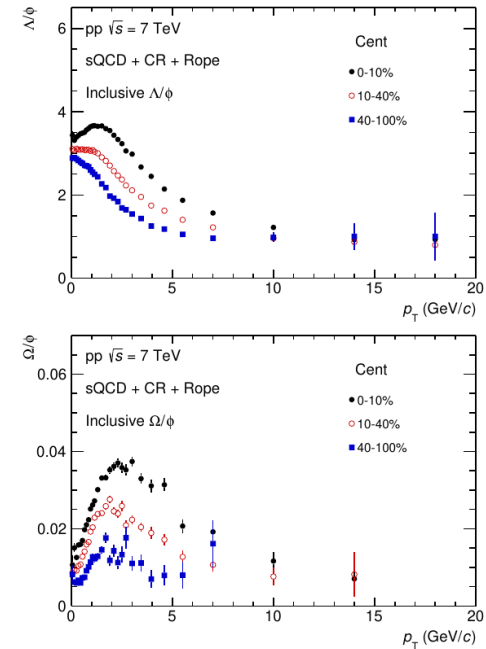
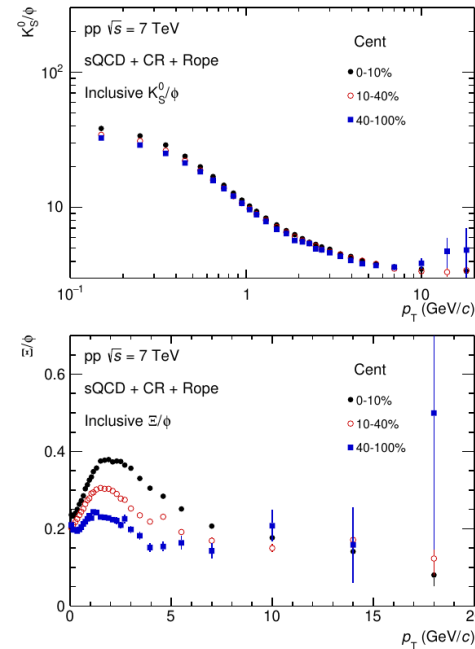
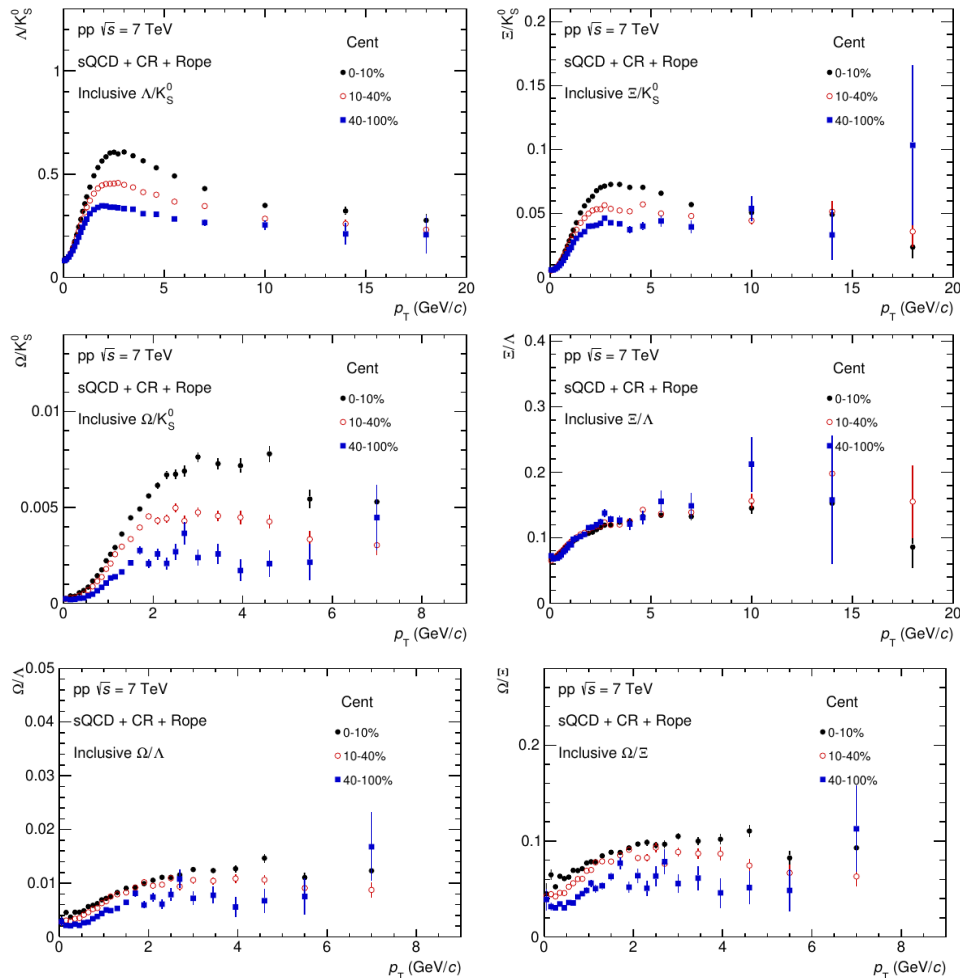


Figure 10: Inclusive baryon-to-meson ratio(top) with p_T distribution.(data points are taken from arXiv:2005.11120)

Particle ratio in different centrality bin

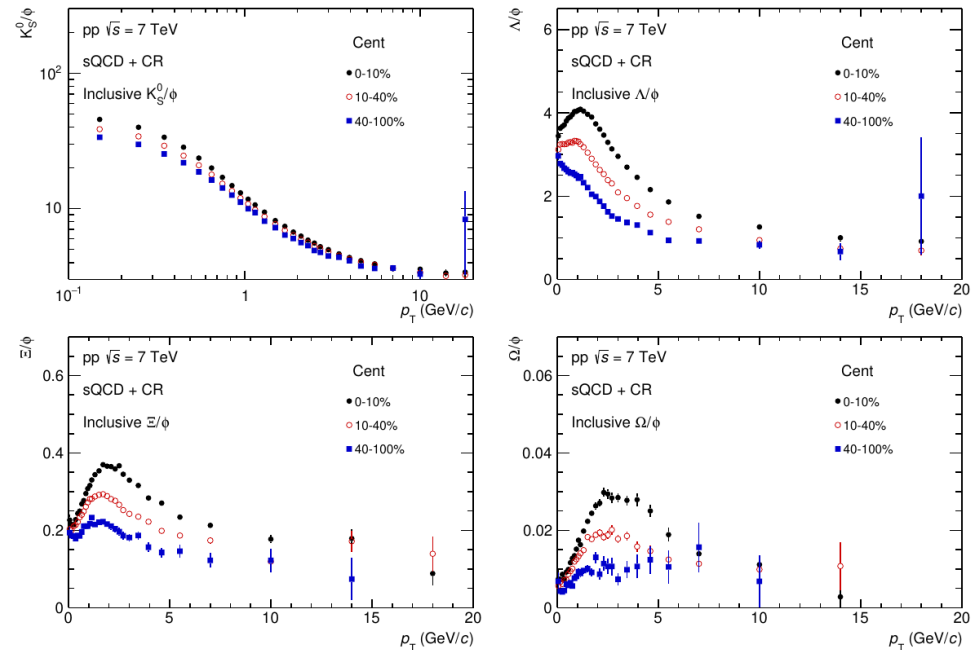
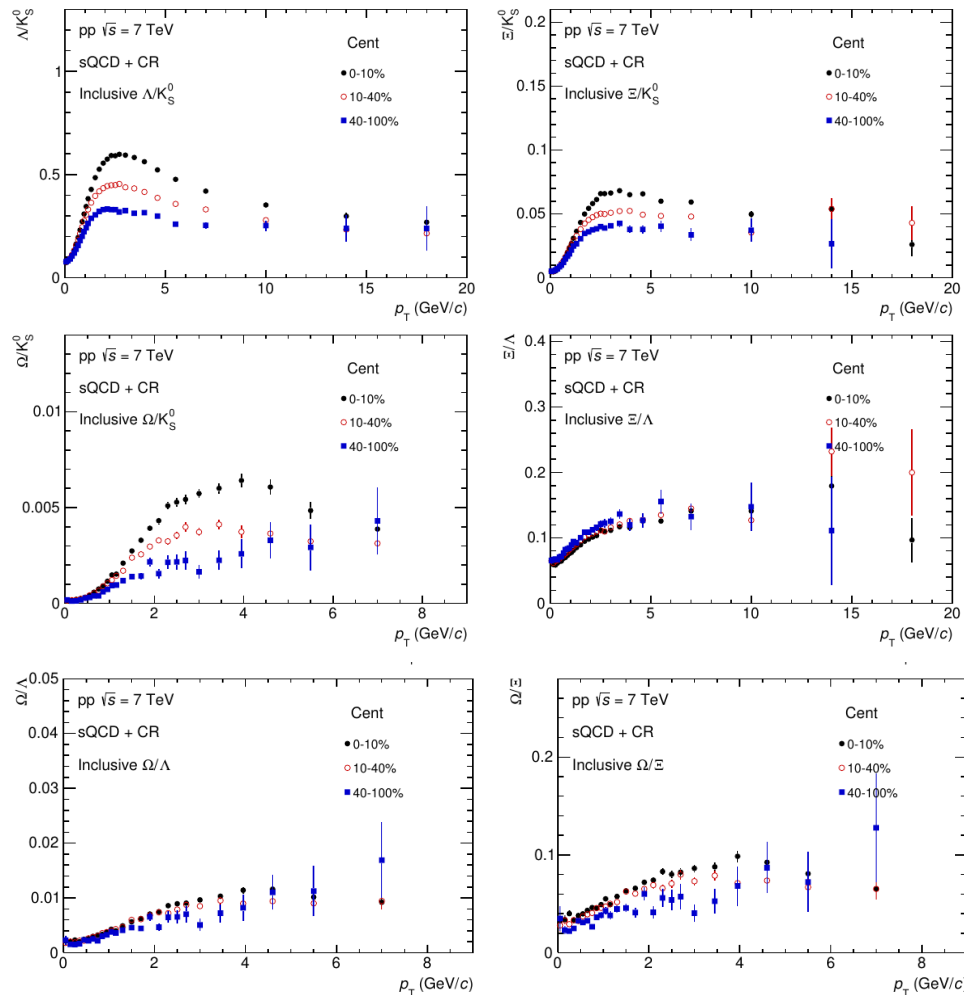
CR+Rope



BB and BM with p_T distribution

Particle ratio in different centrality bin

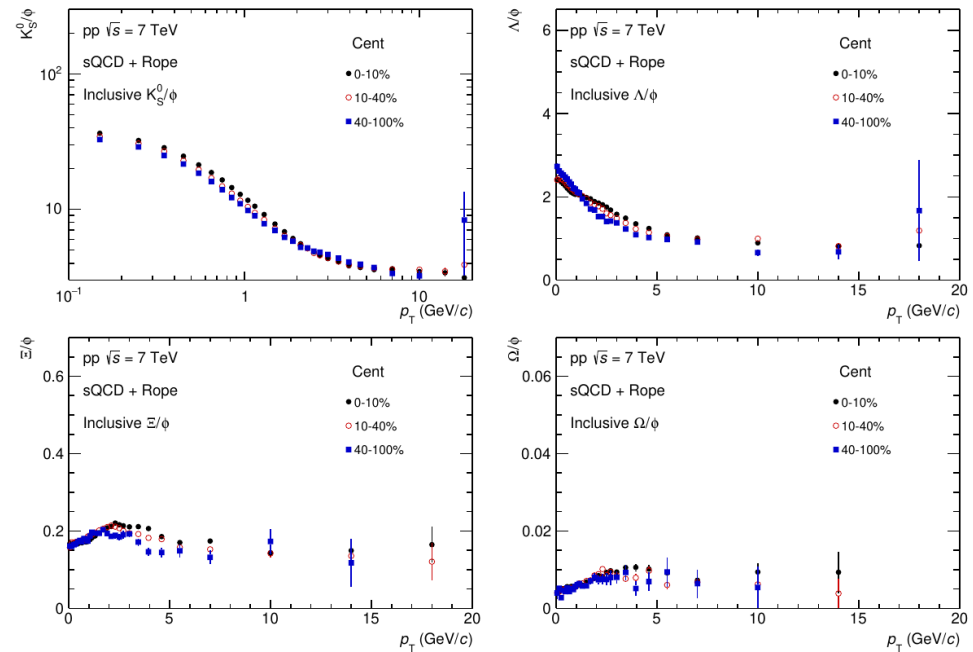
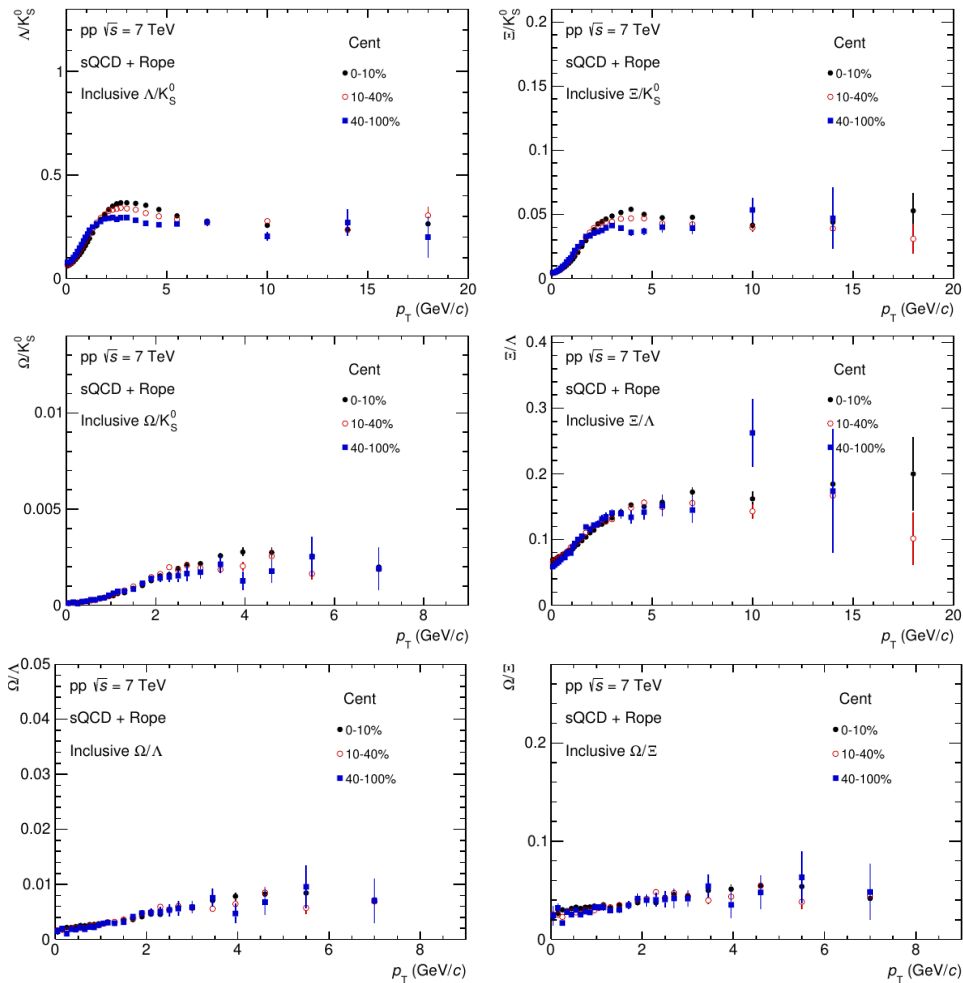
CR



BB and BM with p_T distribution

Particle ratio in different centrality bin

Rope



BB and BM with p_T distribution

Lambda/Kshort with multiplicity bin

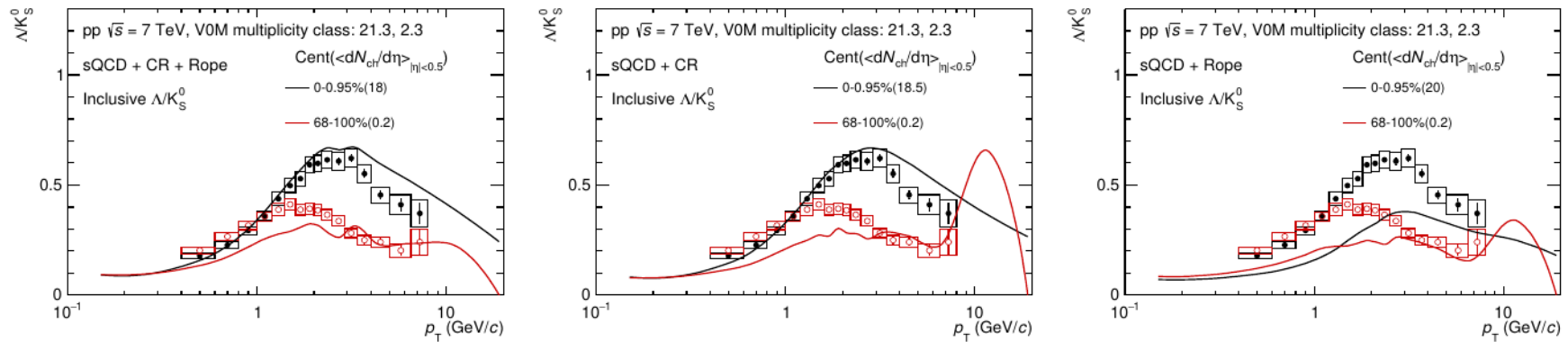


Figure 14: Λ/K_S^0 ratio with p_T distribution in large multiplicity bin(black) and small multiplicity bin(red) with different PYTHIA parameters.

Particle ratio in jet with p_T distribution

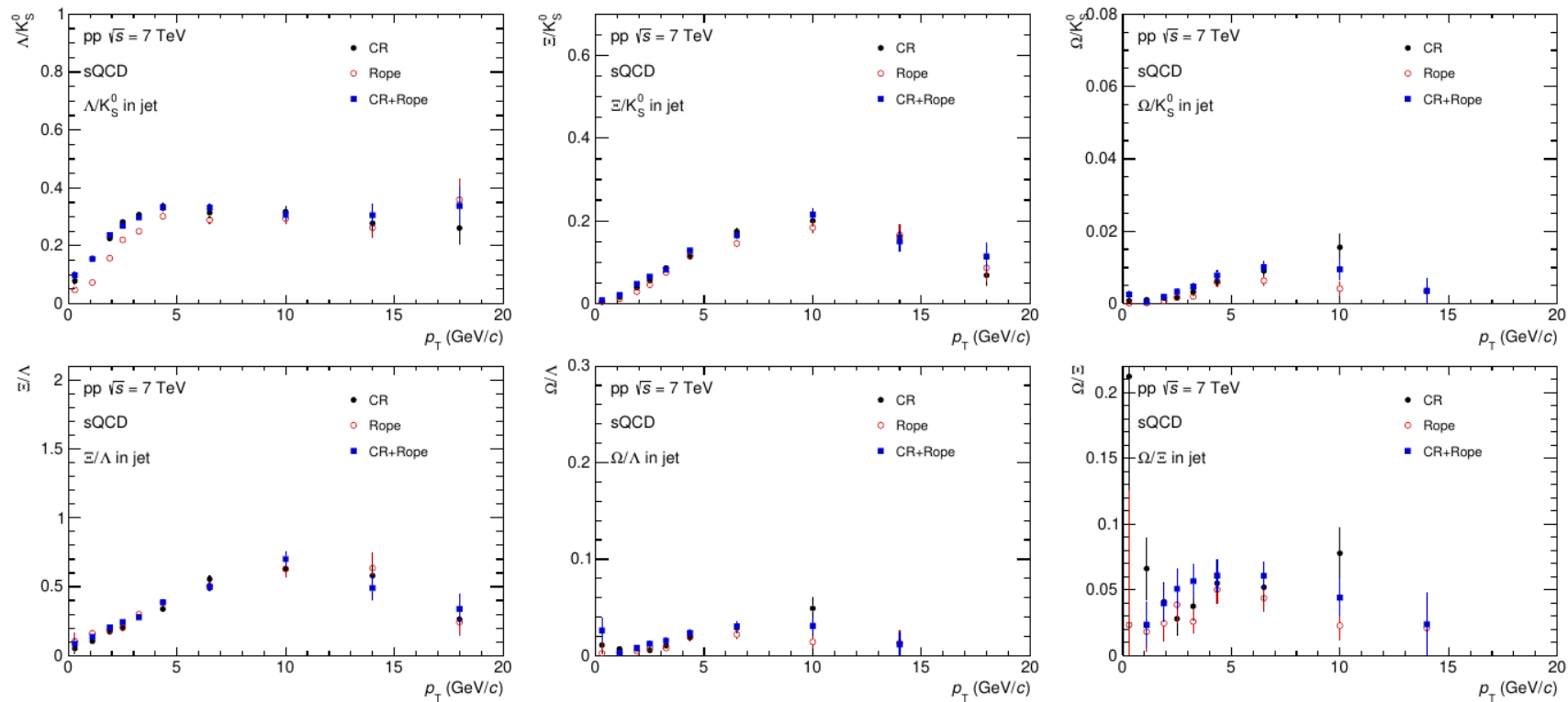
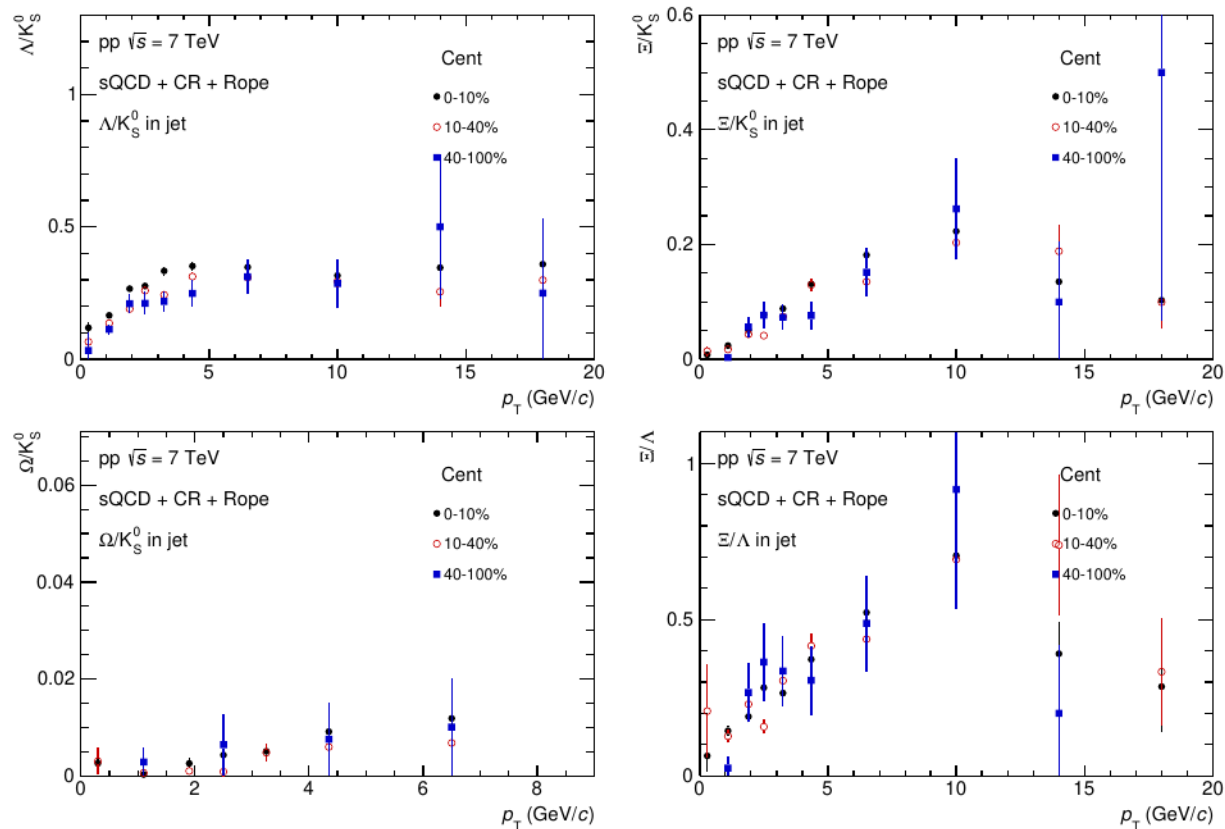


Figure 15: Baryon-to-meson ratio(top) and Baryon-to-meson ratio(bottom) in jets with p_T distribution.

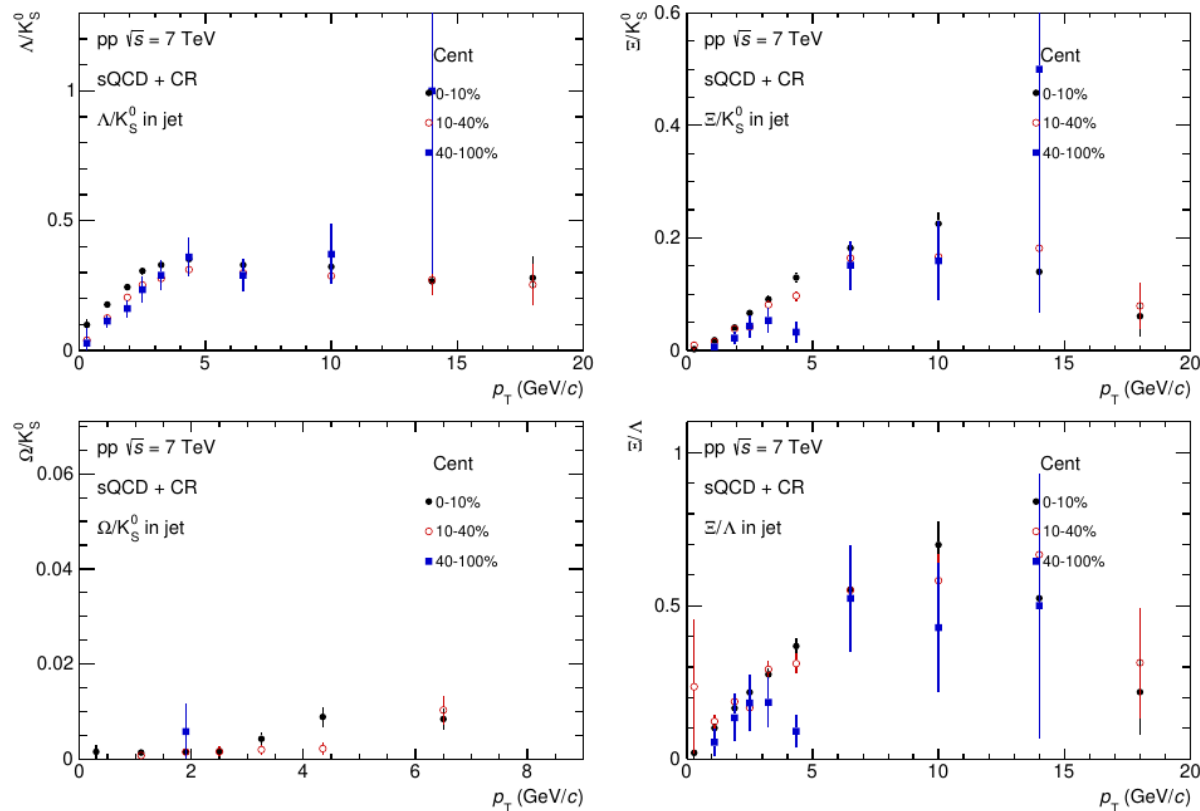
Particle ratio in jet with different centrality bin



CR+Rope

Figure 16: Baryon-to-meson ratio(top) and Baryon-to-meson ratio(bottom) in jets with p_T distribution in different centrality bins (CR + Rope).

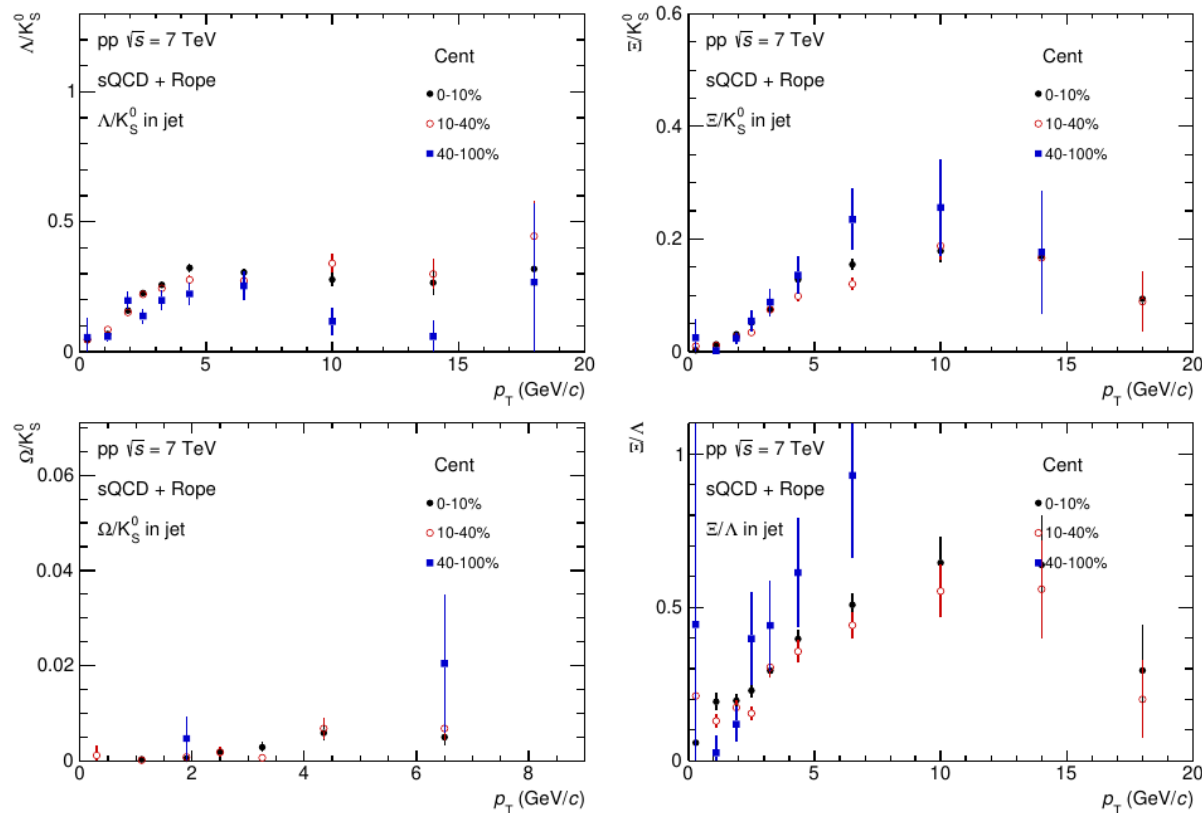
Particle ratio in jet with different centrality bin



CR

Figure 17: Baryon-to-meson ratio(top) and Baryon-to-meson ratio(bottom) in jets with p_T distribution in different centrality bins (CR).

Particle ratio in jet with different centrality bin



Rope

Figure 18: Baryon-to-meson ratio(top) and Baryon-to-meson ratio(bottom) in jets with p_T distribution in different centrality bins (Rope).