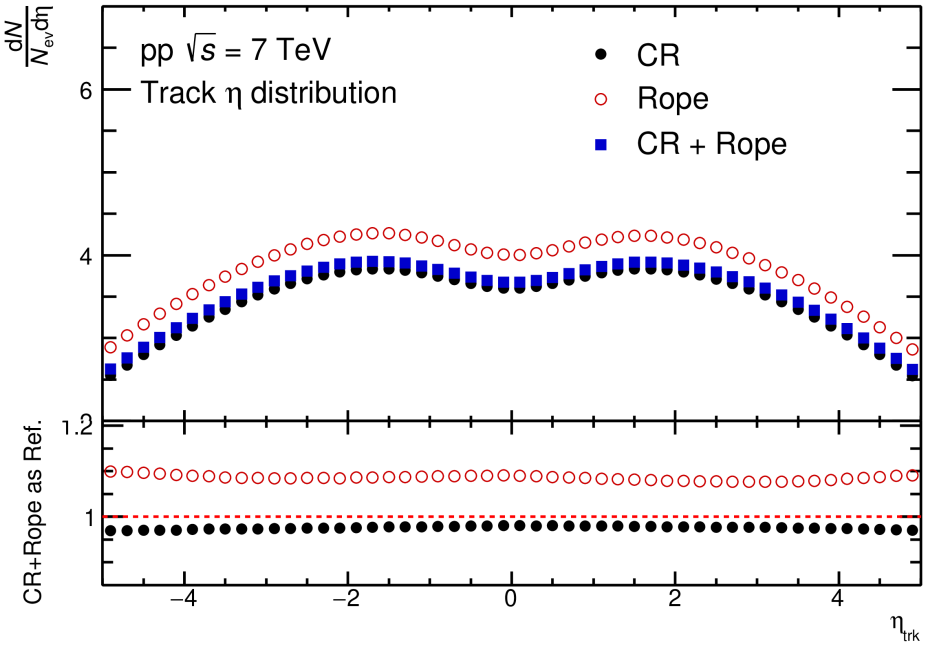
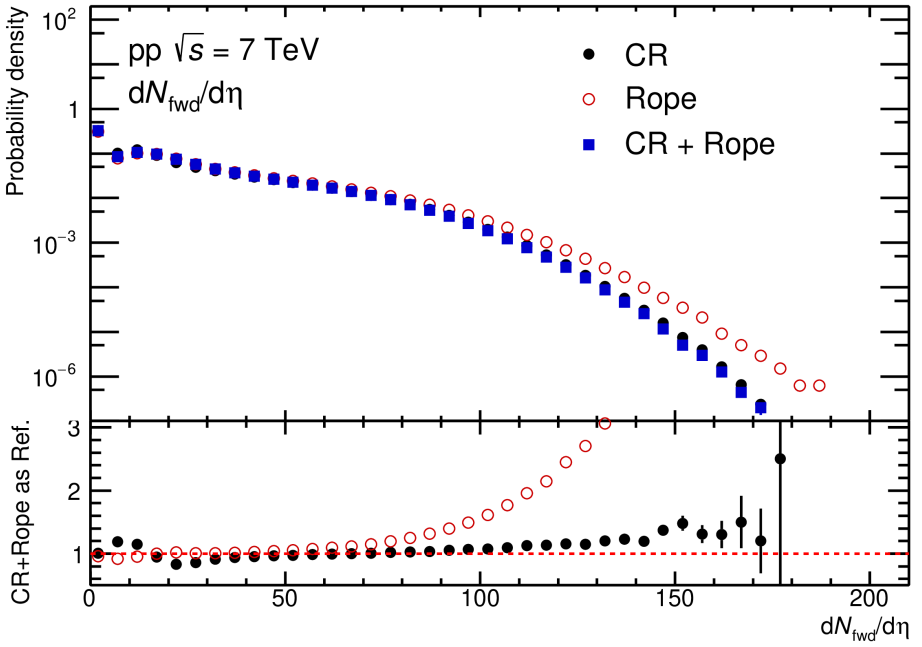
Study strange particle in jet

Changed to TTree

50 M events pp 7 TeV

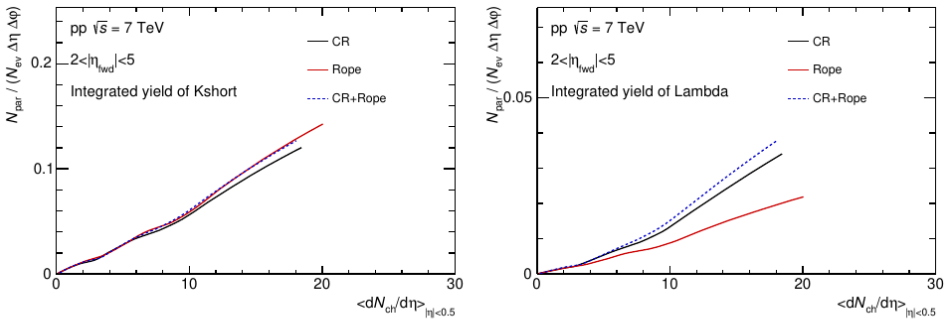
Tracks

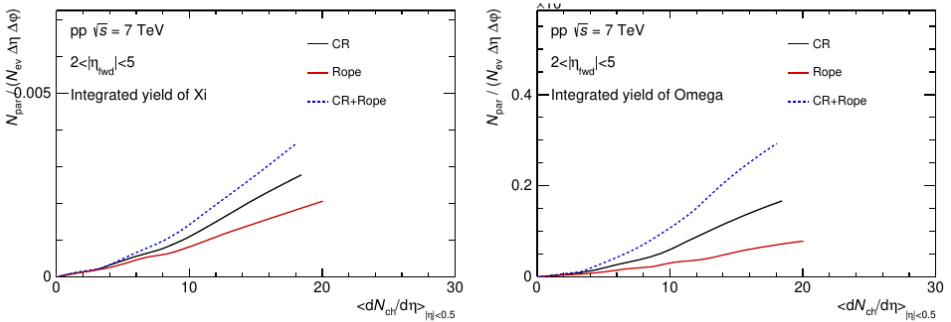


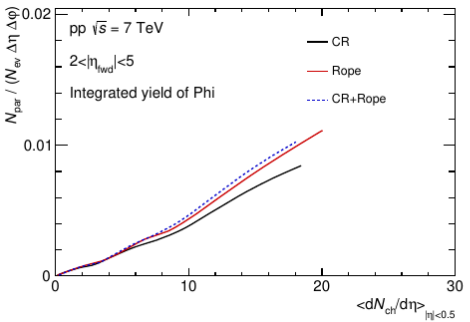


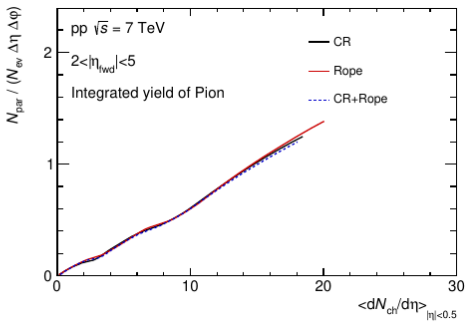
- Track eta distribution in MB events
- Forward tracks dNdeta distribution

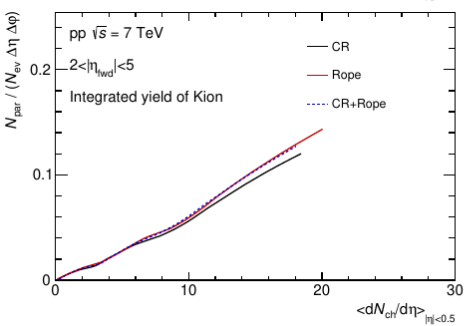
Integrated yield vs <dNdeta>

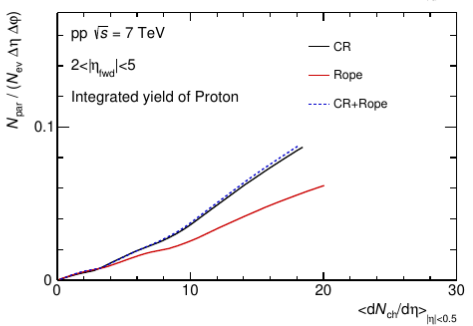












- Integrated yield of some interest particles

Particle-to-pion ratios with <dNdeta>

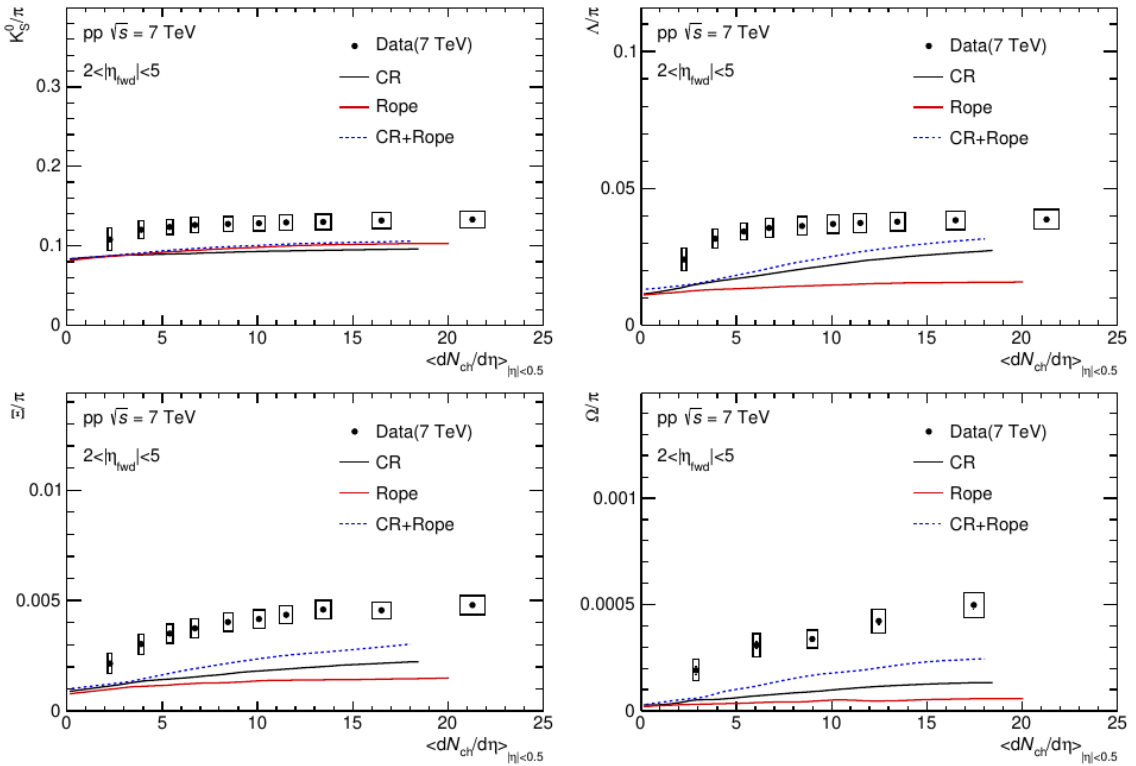


Figure 5: Inclusive integrated yields ratios of strange particle to π with $\langle dN_{ch}/d\eta \rangle$.

- Data taken from 1606.07424v2

Particle-to-pion ratios in jet with <dNdeta>

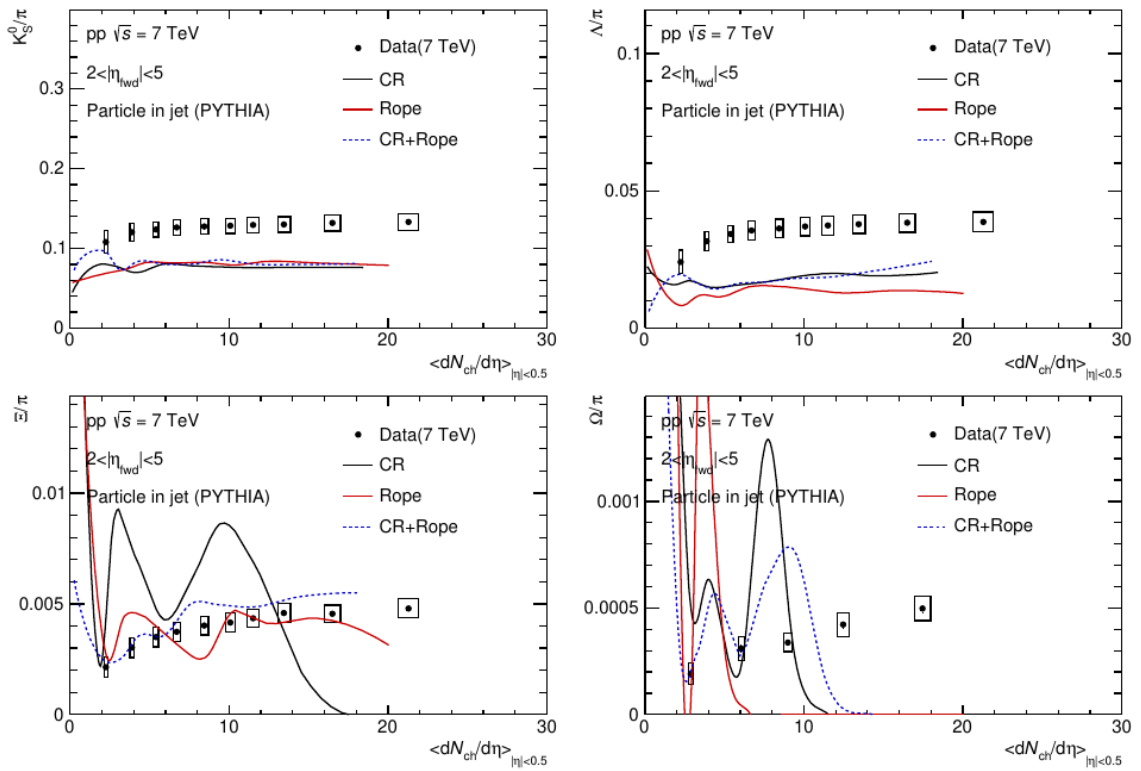


Figure 6: Integrated yields ratios in jet of strange particle to π with $\langle dN_{ch}/d\eta \rangle$.

- Data for inclusive results
- Kshort and Lambda to pion ratio almost independent with <dN/deta>
- Xi and Omega to pion ratio is unreasonable

Inclusive particle ratio with pT distribution

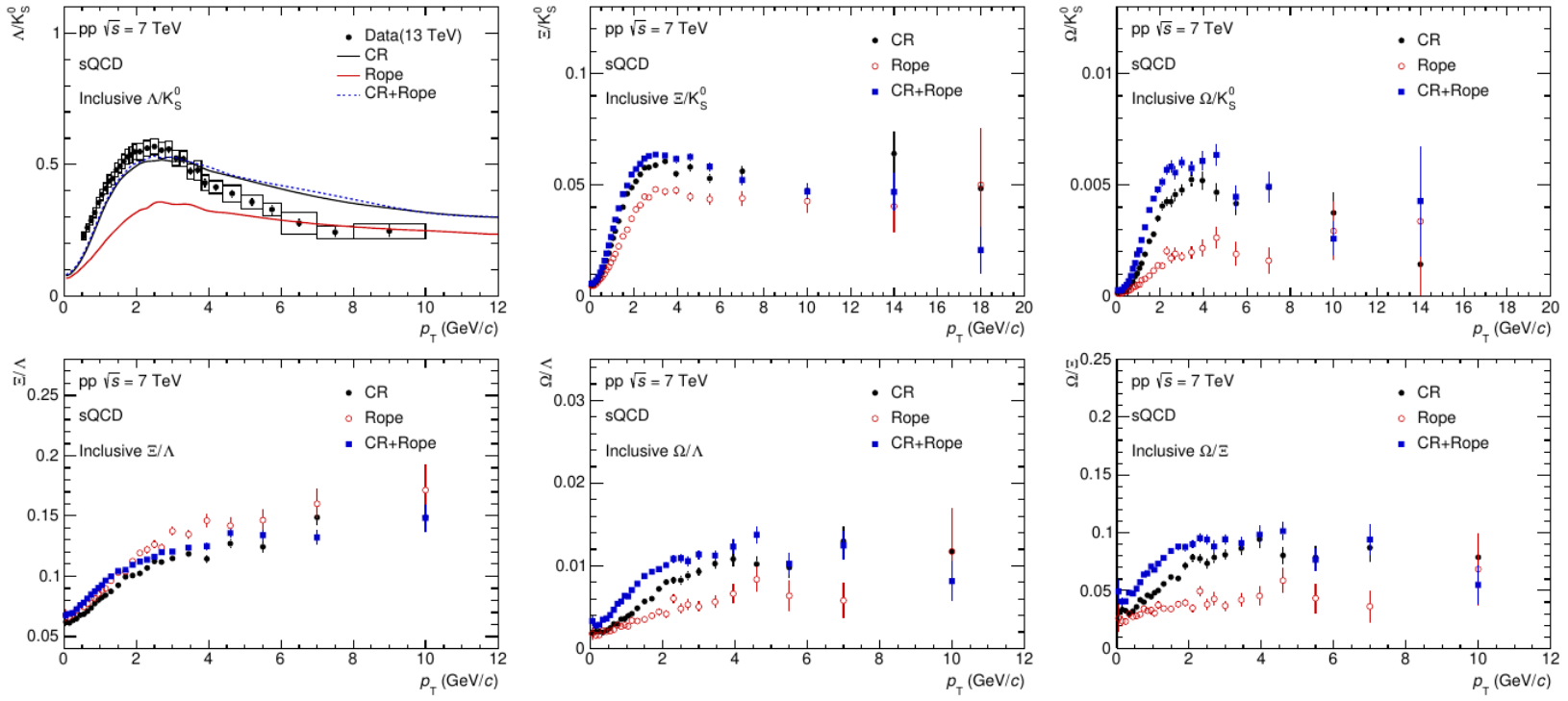


Figure 7: Inclusive baryon-to-meson ratio(top) and Baryon-to-meson ratio(bottom) with p_T distribution.

- Only find data point of Lambda/Kshort in 13 TeV from 2005.11120

Inclusive particle ratio with pT distribution

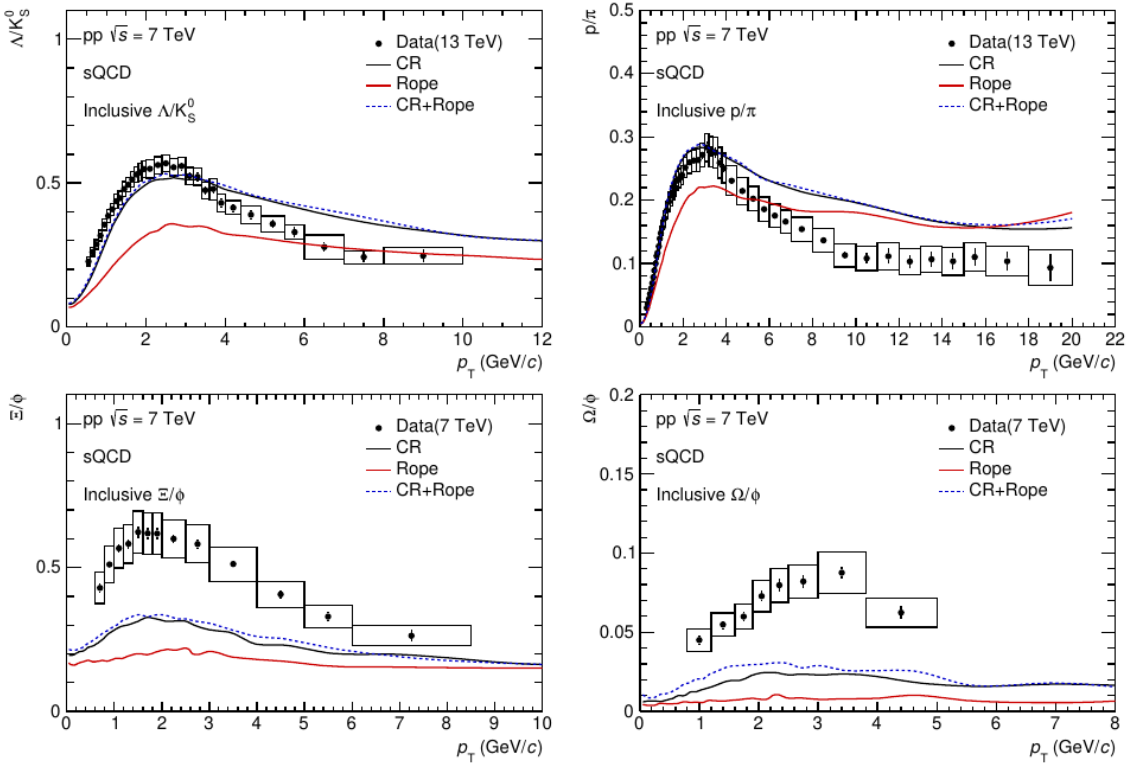


Figure 8: Inclusive baryon-to-meson ratio(top) with p_T distribution.

- Baryon to meson ratios with different setting
- Data point taken from 2005.11120

Particle ratio in different centrality bin

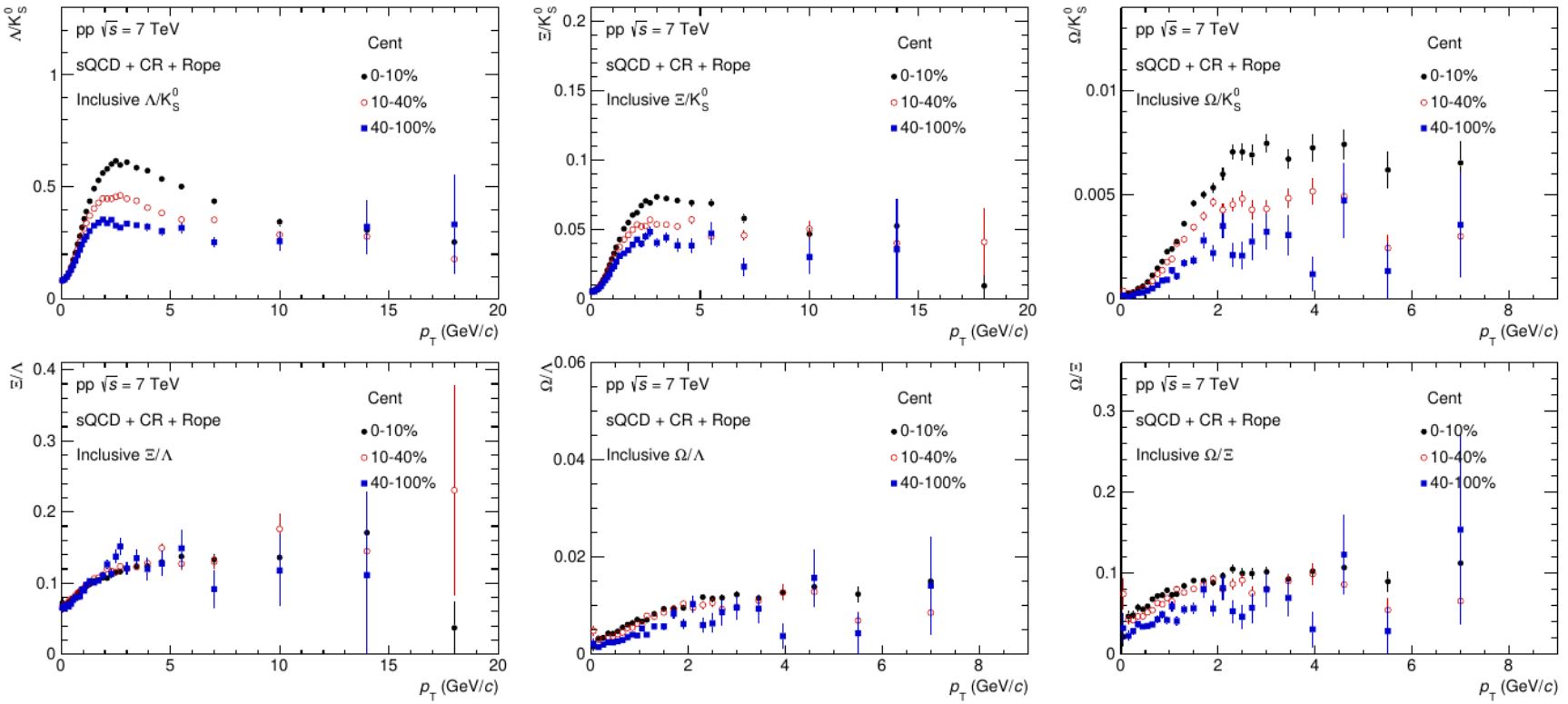


Figure 9: Baryon-to-meson ratio(top) and Baryon-to-meson ratio(bottom) with p_T distribution in different centrality bins.

Particle ratio in jet with pT distribution

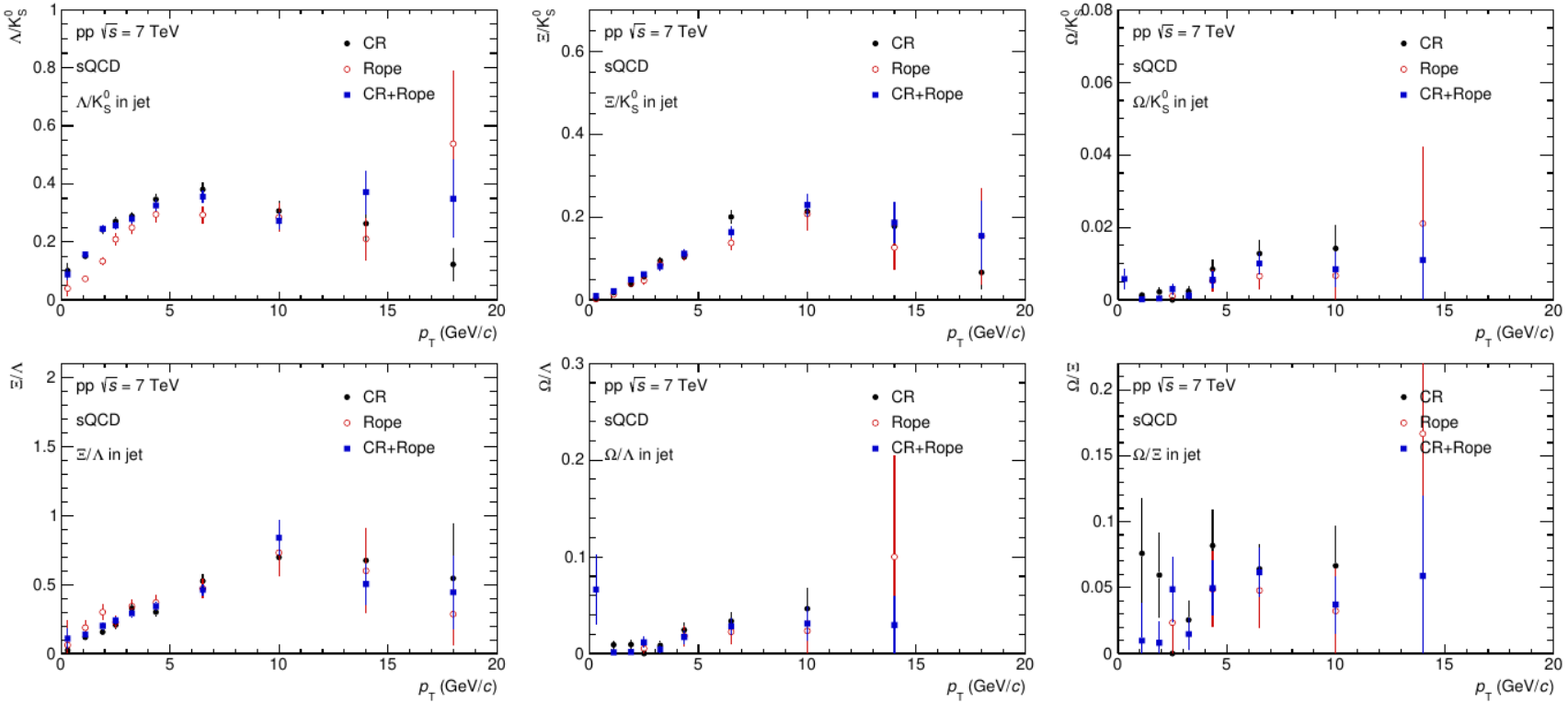
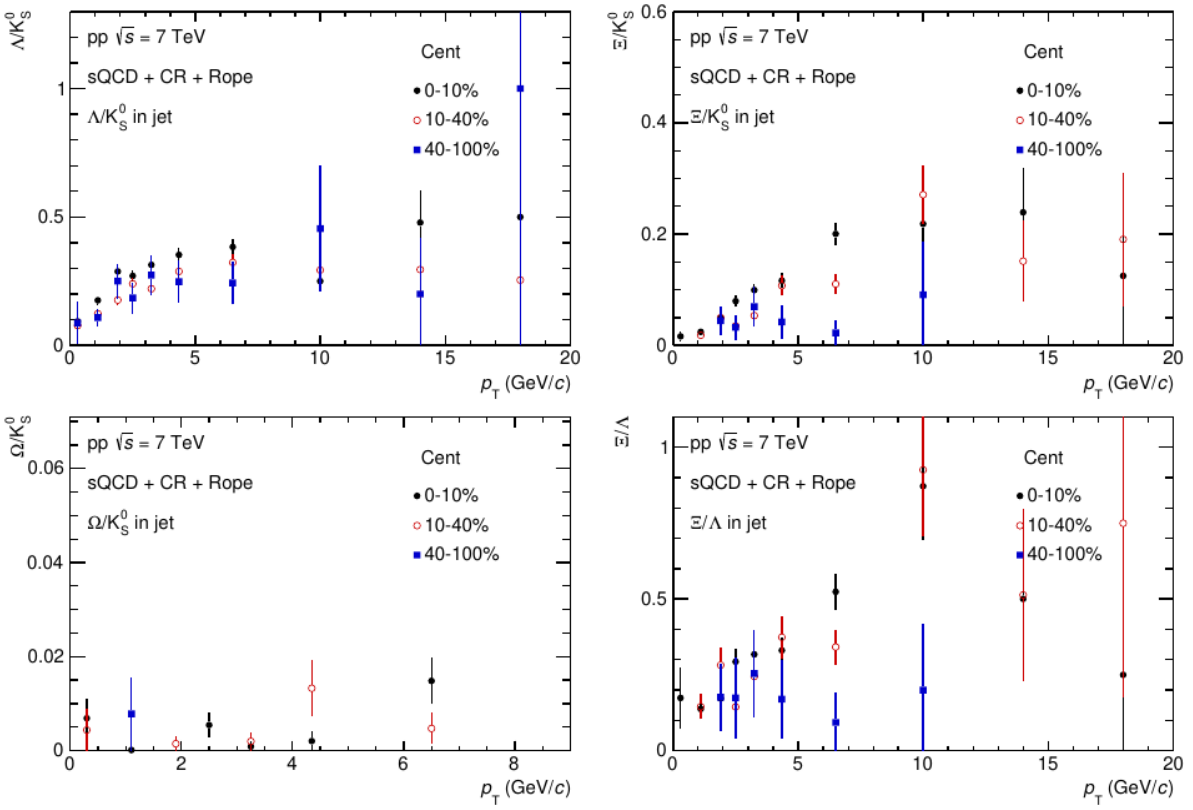


Figure 9: Baryon-to-meson ratio(top) and Baryon-to-meson ratio(bottom) in jets with p_T distribution.

Particle ratio in jet with different centrality bin



- For Omega didn't have enough statistics

Figure 11: Baryon-to-meson ratio(top) and Baryon-to-meson ratio(bottom) in jets with p_T distribution in different centrality bins.