

ALICE-PUBLIC-2016-001

**Supplemental figures for
Centrality dependence of charged jet production in p–Pb collisions at
 $\sqrt{s_{NN}} = 5.02 \text{ TeV}$**

ALICE Collaboration*

Abstract

This note contains additional figures on centrality dependent charged jet production compared to the main publication which focuses on centrality estimation with the hybrid method [1]. In the figures the impact of different centrality estimators on Q_{pPb} for charged jets is shown. The estimators have been analysed and discussed in detail in [2] in the context of charged particle production. The minimum bias result on charged jet production is presented in [3].

© 2016 CERN for the benefit of the ALICE Collaboration.

Reproduction of this article or parts of it is allowed as specified in the CC-BY-4.0 license.

*The author list is given in arXiv:1603.03402.

1 Figures

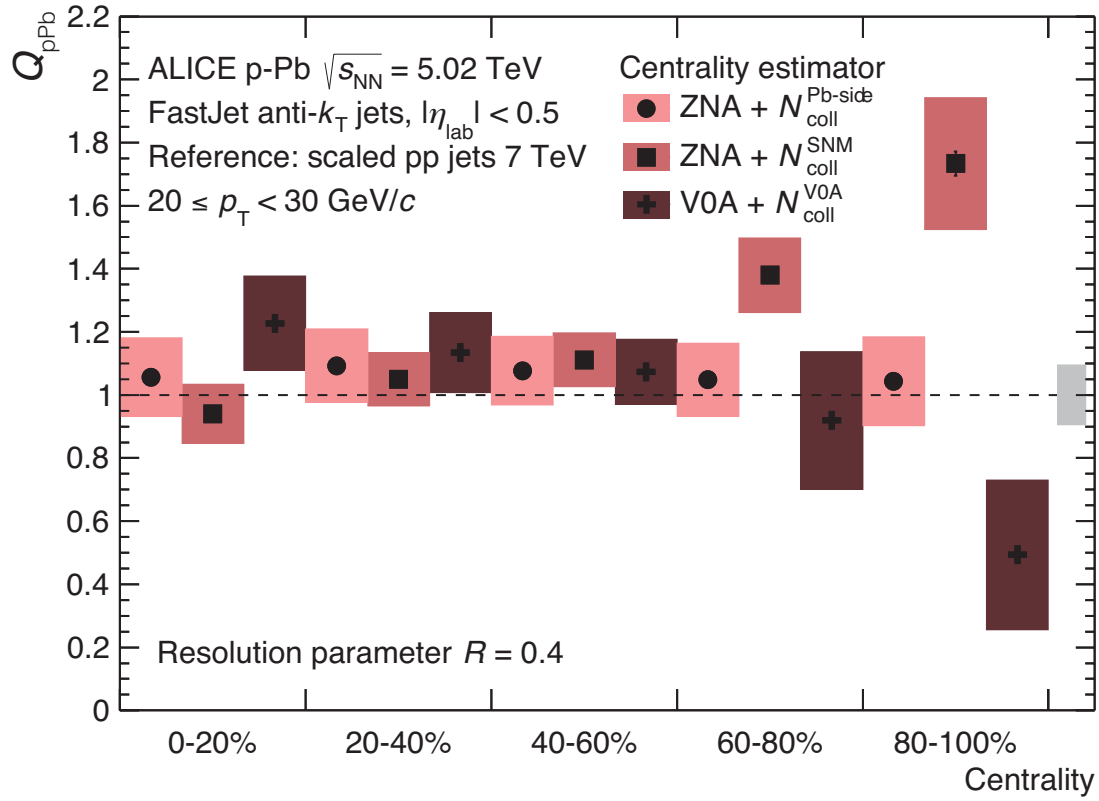


Fig. 1: Centrality evolution of Q_{pPb} at fixed charged jet momentum for $R = 0.4$. The V0-based centrality shows a clear dependence due to kinematical bias and the SNM estimate of N_{coll} is not reliable as discussed in [2].

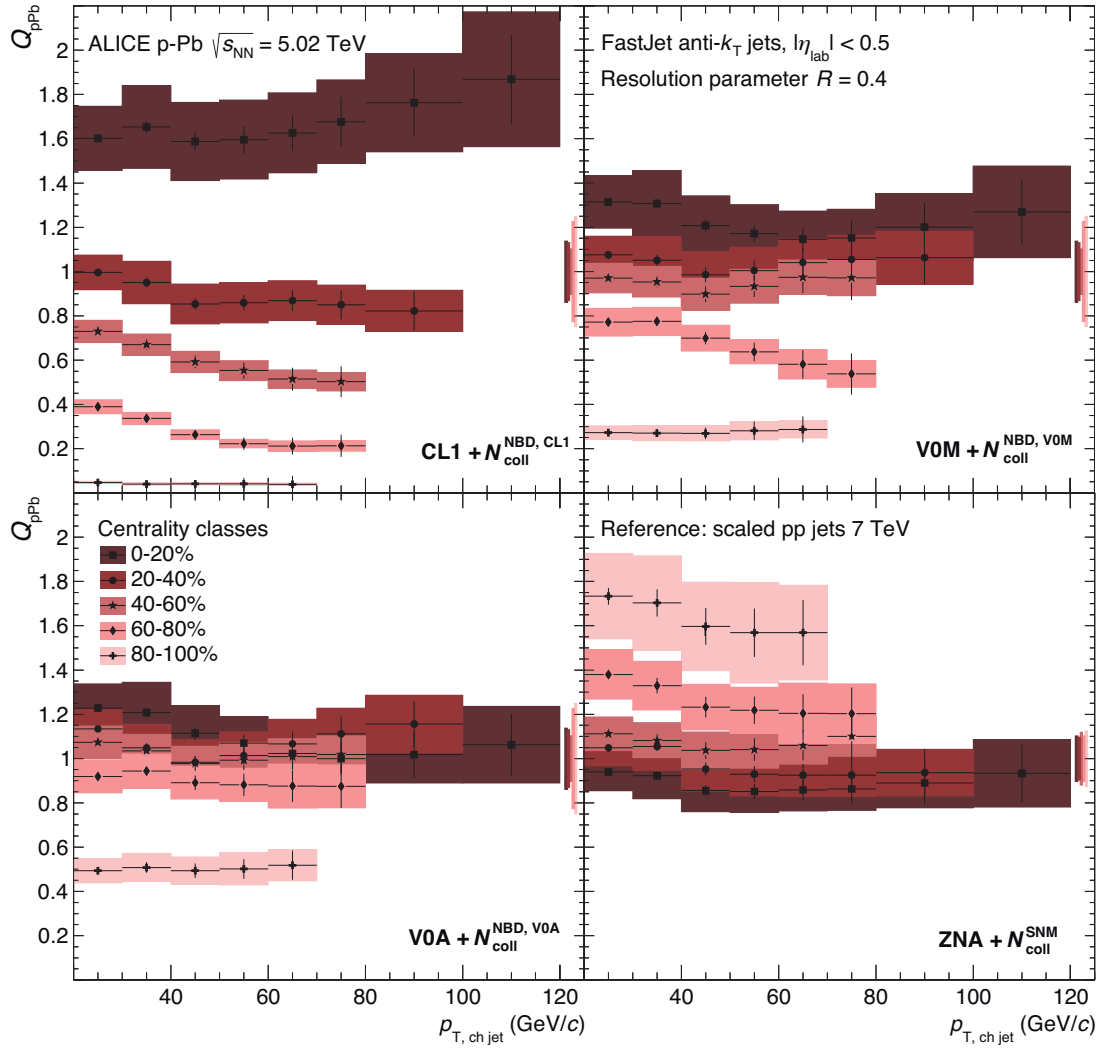


Fig. 2: Q_{pPb} of charged jet production in p-Pb for several different centrality classifications and N_{coll} estimates. Corresponding to Fig. 19 for charged particles in [2].

References

- [1] ALICE Collaboration, J. Adam *et al.*, “Centrality dependence of charged jet production in p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV,” *arXiv:1603.03402* [nucl-ex].
- [2] ALICE Collaboration, J. Adam *et al.*, “Centrality dependence of particle production in p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV,” *Phys. Rev. C* **91** no. 6, (2015) 064905, *arXiv:1412.6828* [nucl-ex].
- [3] ALICE Collaboration, J. Adam *et al.*, “Measurement of charged jet production cross sections and nuclear modification in p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV,” *Phys. Lett. B* **749** (2015) 68–81, *arXiv:1503.00681* [nucl-ex].