Erratum: Collision-geometry fluctuations and triangular flow in heavy-ion collisions [Phys. Rev. C 81, 054905 (2010)]

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(Received 26 August 2010; published 30 September 2010)

DOI: 10.1103/PhysRevC.82.039903 PACS number(s): 25.75.Ld, 25.75.Gz, 99.10.Cd

In the original article, we presented Fourier decomposition of azimuthal correlation results from the PHOBOS and STAR collaborations and compared the ratio of the third and second coefficients $\mathbf{V}_{3\Delta}/\mathbf{V}_{2\Delta}$ to a multiphase transport (AMPT) model calculations. We have referred to the STAR data from Ref. [1] as inclusive in particle transverse momentum. In fact, the STAR measurement was performed on particles selected to be within $0.8 < p_{\mathrm{T}} < 4.0$ GeV. In this Erratum, we correct the comparison between the STAR results and AMPT calculations by applying the same transverse momentum selection on AMPT events.

Figure 1 shows the corrected version of Figure 8(b) from the original article where the STAR data points are unchanged and AMPT points have been recalculated with the appropriate transverse momentum selection. A quantitative agreement between the model and experimental data is observed after the correction: The AMPT calculations for the ratio $\mathbf{V}_{3\Delta}/\mathbf{V}_{2\Delta}$ are within 25% of the STAR results for the 0–70% most central events.

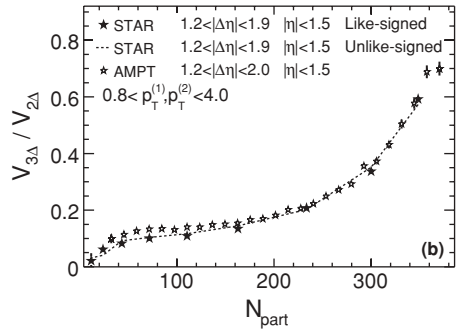

FIG. 1. Figure 8(b) of the original article with AMPT points corrected to have matching transverse momentum selection to the STAR data: The ratio of the third to second Fourier coefficients of azimuthal correlations $\mathbf{V}_{3\Delta}/\mathbf{V}_{2\Delta}$ as a function of the number of participating nucleons N_{part}, for Au + Au collisions at $\sqrt{s_{\mathrm{NN}}} = 200$ GeV. The filled stars and dashed line show values derived from STAR data [1]. Pseudorapidity and transverse momentum ranges and charge selection of particle pairs for different measurements are indicated on the figure. Open points show results from the AMPT model for similar selection of pseudorapidity and transverse momentum to the available data. Error bars indicate statistical errors for AMPT and combined statistical and systematic errors for the experimental data.

[1] B. I. Abelev *et al.* (Collaboration STAR), arXiv:0806.0513v1.

