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Kinematic dependence of the v_2 measured in small collision systems at PHENIX

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We present the results of the second-order Fourier coefficients (v_2), which characterizes the azimuthal anisotropy, in p+p, p+Au, and d+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. The v_2 values are calculated via the two-particle correlation method. To investigate the role of initial geometry effects, the measured v_2 is extracted by two different kinematic selections. The two results are compared and its ratio will be shown as a function of p_T and charged-particle multiplicity to evaluate the validity of the flow factorization. The results are compared to AMPT calculations, which reproduces the flow factorization breaking in small collisions systems.

Primary author: Dr TODOROKI, Takahito (RIKEN BNL Research Center)

Presenter: Dr TODOROKI, Takahito (RIKEN BNL Research Center)

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