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## Investigating the scaling of higher-order flows in relativistic heavy-ion collisions

The modified number of constituent quark (NCQ) scaling  $v_n/n_q^{n/2} \sim KE_T/n_q$  for mesons and baryons and the scaling relation  $v_n \sim v_2^{n/2}$  for higher-order anisotropic flows, which were observed experimentally, have been investigated at the top energy of Relativistic Heavy-Ion Collider. It has been found that the modified NCQ scaling can not be obtained from the naive coalescence even by taking into account event-by-event fluctuations but may be due to hadronic afterburner or thermal freeze-out. In addition, we observed that the behavior of the  $v_n/v_2^{n/2}$  ratio is sensitive to the partonic interaction. Further insights about the relation between the two scalings are discussed.

## **Preferred** Track

Collective Dynamics

## Collaboration

Not applicable

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