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Type: **Talk**

## Elliptic and triangular collective flow of identified charged hadrons in Au+Au at $\sqrt{s_{NN}} = 200$ GeV

Thursday, 10 September 2020 12:15 (25 minutes)

A central goal of current experiments at RHIC and LHC is to study the properties of the hot and dense QCD matter produced in energetic heavy-ion collisions. Such studies can give insight into the QCD phase diagram, as well as the transport coefficients of the strongly-coupled Quark-Gluon Plasma (sQGP). Anisotropic flow measurements of identified particles play an essential role in such studies. We report on the measurements of elliptic ( $v_2$ ) and triangular ( $v_3$ ) flow of identified charged hadrons in Au+Au collisions at 200 GeV per nucleon pair center of mass energy measured with the STAR detector at RHIC. The results will be presented as a function of transverse momentum ( $p_T$ ) and collision centrality for different particle species and compared with recent ALICE measurements in Pb+Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV.

### Is this abstract from experiment?

Yes

### Internet talk

Yes

### Name of experiment and experimental site

STAR, <https://www.star.bnl.gov/>

### Is the speaker for that presentation defined?

Yes

### Details

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