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Elliptic (v_2) and triangular (v_3) anisotropic flow of identified hadrons from the STAR Beam Energy Scan program.

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Elliptic (v_2) and triangular (v_3) anisotropic flow coefficients for inclusive and identified charged hadrons ($\pi^\pm, K^\pm, (\text{anti})\text{protons}$) at midrapidity in Au+Au collisions measured by the STAR experiment in the Beam Energy Scan at the Relativistic Heavy Ion Collider at $\sqrt{s_{NN}} = 11.5\text{--}62.4$ GeV and 200 GeV are presented as a function of centrality and particle transverse momenta. The triangular flow signal (v_3) exhibits similar trends to those observed previously for v_2 : mass ordering at low p_T ($p_T < 2$ GeV/c), meson/baryon splitting at intermediate p_T ($2 < p_T < 3.5$ GeV/c), difference in flow signal of protons and antiprotons and similar excitation function for p_T -integrated values of charged hadrons. New measurements of v_3 could serve as important constraints to test different models and to aid new information of transport properties of the matter created in heavy-ion collisions at RHIC energies.

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