Measurement of high- $p_T \pi^{\pm}$, $p(\bar{p})$ spectra in $\sqrt{s_{NN}} = 19.6$ GeV Au+Au collisions at RHIC-STAR Jia Chen (for the STAR collaboration)¹ IShandong University In this talk, we present measurements of high transverse momentum spectra of identified hadrons $(\pi^{\pm}, p(\bar{p}))$ in Au + Au collisions at $\sqrt{s_{NN}} = 19.6$ GeV with the STAR experiment in the Beam Energy Scan (BES) II program at Relativistic Heavy Ion Collider (RHIC). In addition, the particle

Energy Scan (BES) II program at Relativistic Heavy Ion Collider (RHIC). In addition, the particle ratios $(\pi^-/\pi^+, \bar{p}/p, \text{ etc.})$ at mid-rapidity (|y| < 0.55) will be presented in different collision centralities. These ratios are sensitive to the initial parton composition and possible jet quenching effects, thus can help to constrain the theoretical model parameters. We also study the kinetic freeze-out properties by performing Tsallis Blast-Wave (TBW) fits to the measured hadron spectra.

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