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Recent Results and future programs from STAR Experiment

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I will highlight recent results from STAR experiment at RHIC. The results to be presented are: proton sea-quark and sign of color interaction using W-boson, hard probes of QGP properties, discovery of most vortical fluid using global hyperon polarization, search for chiral magnetic effect (CME) and QCD critical point. STAR's plan for future programs includes isobar collisions and second phase of Beam Energy Scan (BES-II) to strengthen our searches for CME and critical point, longitudinal correlation study to quantify the temperature dependence of viscosity and 3-dimension hydrodynamics, and Drell-Yan and other Cold-QCD processes to study the gluon and quark contents of nucleons and nuclei – an important scientific portal toward future Electron-Ion Collider.

Primary author: XU, Zhangbu (Brookhaven National Laboratory)

Presenter: XU, Zhangbu (Brookhaven National Laboratory)

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