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Heavy flavor measurements at STAR (15' + 5')

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Heavy quarks are produced by hard processes early in the collision at RHIC energy, and their interaction with the QCD medium is sensitive to the medium properties. The suppression pattern of heavy quarkonia also carries information about the Quark Gluon Plasma. In this talk we will report selected new measurements of open and hidden heavy flavor hadrons from the STAR experiment, especially those with the new Heavy Flavor Tracker (HFT) and Muon Telescope Detector (MTD). We will report an improved D0 RAA measurement, the first D0 v2 and Ds measurements in Au+Au collisions at top RHIC energy, thanks to the HFT. We will also present new J/ψ polarization measurements in p+p collisions. J/ψ production in p+p events with different multiplicities at 500 GeV, RAA and v2 in Au+Au collisions at 200 GeV measured with the MTD will also be presented.

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