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Recent hard probes measurements from STAR experiment.

The STAR experiment at RHIC has excellent detector coverage and capabilities in tracking and particle identification to study emergent properties of the Quark Gluon Plasma (QGP) created in central collisions of heavy ions. Among the probes used experimentally to study the QGP properties, hard probes (jets and heavy flavor quarks) are unique since they are dominantly produced at the early stage of the collisions and subsequently experience the entire evolution of the system.

In this talk, we will discuss recent high-precision measurements of charm and bottom quarks, quarkonia, jet production and their substructure in p+p, p+Au and Au+Au collisions in the STAR experiment. In addition, an outlook for upcoming measurements will be presented.