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Latest Results from Heavy Flavor Measurements

XIN DONG, Lawrence Berkeley National Lab

Heavy flavors are ideal probes to quantify the QCD medium properties in relativistic heavy ion collisions. In this talk, I will review the most recent measurements and results on open heavy flavor and heavy quarkonium production from heavy ion experiments. I will discuss our current understandings of heavy flavor hadron production mechanisms, heavy quark in-medium interactions, QCD medium properties we've learned so far, as well as the limitations of these measurements. In the end, I will outlook a bright future in heavy flavor measurements with machine and detector upgrades in the RHIC II era.