

Open heavy flavor in STAR

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In relativistic heavy ion collisions at RHIC, heavy quarks are expected to be created from initial hard scatterings. The interaction between heavy quarks and the medium is sensitive to the early medium dynamics, therefore heavy quarks are suggested as an ideal probe to quantify the properties of the strongly interacting QCD matter.

In this talk, we report on recent STAR results of open heavy flavor production at $\sqrt{s_{NN}} = 39, 62.4, 193, 200$ and 500 GeV in p+p, Au+Au and U+U collisions. We present nuclear modification factor and elliptic flow of open charm mesons and non-photonic electrons.

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