

APR20-2020-000363

E

Abstract for an Invited Paper
for the APR20 Meeting of
the American Physical Society

Resonance formation in heavy ion collisions

ANDERS KNOSPE, Univ of Houston

Hadronic resonances are unique and valuable probes of the matter produced in high-energy ion-ion collisions. Measurements of resonance yields shed light on the hadrochemistry of the system, including its evolution with system size, as well as the properties of the later hadronic phase. Studies of resonances such as the $\phi(1020)$ meson also improve our understanding of the various mechanisms, including flow and recombination, that determine the momentum and azimuthal distributions of hadrons. Searches for modifications of resonance properties in large collision systems help us understand the properties of the partonic medium. To explore these topics, an overview of resonance measurements will be presented and compared to results from theoretical models.