Contribution ID: **14** Type: **not specified**

Open heavy flavor results from RHIC and the LHC

Wednesday 29 July 2015 10:00 (30 minutes)

Hadrons carrying open heavy flavor have been a useful tool in studying the strongly interacting matter produced in ultra-relativistic heavy-ion collisions. Since heavy flavor quarks are produced early in the collision, they experience the full evolution of the medium and are thus a good probe of medium effects. Studying open heavy flavor in p(d)+A and A+A collisions can allow for the quantification of cold nuclear matter effects and energy loss in the produced hot medium. Early measurements from the Relativistic Heavy Ion Collider (RHIC) showed interesting results that prompted further studies over a course of different collision species and kinematic regions. The addition of data from the Large Hadron Collider (LHC) at CERN further extends these measurements to higher collision energies. Open heavy flavor results from both RHIC and the LHC will be presented and discussed as they relate to our further understanding of how heavy quarks are affected by the medium produced in ultra-relativistic heavy-ion collisions.

Author: APADULA, Nicole

Presenter: APADULA, Nicole

Session Classification: Heavy Flavor and Quarkonia Production