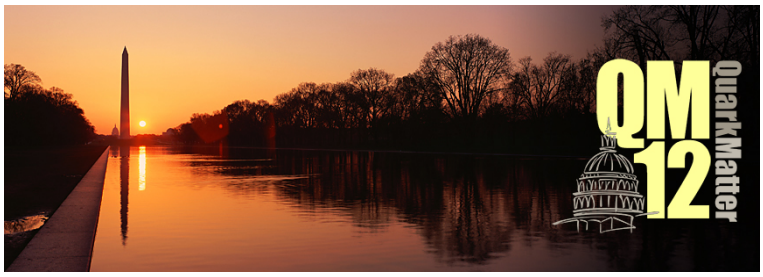

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Late Result - Ds RAA from ALICE

Wednesday 15 August 2012 12:20 (20 minutes)

The measurement of heavy-flavour production provides insights on the properties of the high-density QCD medium created in heavy-ion collisions.
In particular, the comparison of charm production in pp and in Pb-Pb collisions allows to study the mechanism of in-medium energy loss of heavy quarks. Furthermore, since strange quarks are abundant in the medium, the relative yield of D+s mesons with respect to non-strange charm mesons (D0 and D+) is predicted to be largely enhanced if in-medium hadronization is the dominant mechanism for charm hadron formation in the low momentum region.
We will present the measurement of the D+s production in pp collisions at sqrt{s} = 7 TeV and in Pb-Pb collisions at sqrt{s_NN} =2.76 TeV performed with the ALICE detector at central rapidity through the exclusive reconstruction of the hadronic decay channel D+s –> Phi pi+ –> K+K-pi+. The ratios between the yields of D+s and non-strange D mesons as a function of the transverse momentum will be shown for both pp and Pb-Pb collisions.

Presenter: INNOCENTI, Gian Michele (Universita e INFN (IT))

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