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$K^*(892)^0$ and $\phi(1020)$ production as a function of charged particle multiplicity in pp collisions at $\sqrt{s}$ = 7 TeV

Tuesday 29 September 2015 16:30 (2 hours)

Recent measurements in high-multiplicity proton-proton (pp) and proton-lead (p-Pb) events show some characteristics of heavy ion (Pb-Pb) collisions. Further understanding of such observations can be provided by the measurement of transverse momentum (p_{T}) spectra of the
resonances like K^{*0} and ϕ.

The unique capability of the ALICE detector allows one to directly identify charged hadrons (i.e. pions, kaons and protons) and therefore to reconstruct K^{*0} and ϕ mesons via their hadronic decay channels. We will report on the measurement of transverse momentum spectra and $\langle$ pT $\rangle$ of these resonances as a function of pseudo-rapidity charged-particle density ($\mathrm{d}N_{ch}/\mathrm{d}\eta$) at mid-rapidity region.

On behalf of collaboration:

ALICE

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