ID de Contribution: **13** Type: **Poster**

Study of charmonium production using decay to hadronic final states with the LHCb experiment

This work is devoted to charmonia prompt and b-decays production study via charmonia decays to $\phi\phi$ and $p\overline{p}$ in order to test existing Non-Relativistic QCD predictions.

Using decays to ϕ-meson pairs, the inclusive production of $\chi_{c0,1,2}$ in b-hadron
decays is studied with pp collision data corresponding to an integrated luminosity of
$\int \mathcal{L}dt = 3.0\ fb^{-1}$, collected by the LHCb experiment at centre-of-mass energies of 7 and 8 TeV.
Differential $\eta_c(1S)$ production using its decay to $p\overline{p}$ in proton-proton collisions at the center of mass energy $\sqrt{s} = 13\ TeV$ with an integrated luminosity of $\int \mathcal{L}dt = 2.0\ fb^{-1}$ was measured.

Auteur principal: M. USACHOV, Andrii (LAL)

Co-auteur: Dr BARSUK, Sergey (LAL)

Orateur: M. USACHOV, Andrii (LAL)