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Open charm production in the $D^{*+} \rightarrow D^0 \pi^+$ decay channel with ALICE

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Heavy quarks(c, b), due to their large mass, are unique tools to study the degree of thermalization of the initially created matter in high energy nuclear collisions at LHC. The calculation of the total charm production remains a challenge in perturbative QCD. Presently, measurement of the charm production at the TeV scale are rather limited.

LHC has just started delivering p+p collisions at the world's highest center of mass energy of 7 TeV. The first results on open charm resonance production in the channel $D^{*+} \rightarrow D^0 + \pi^+$ (BR:68%), where $D^0 \rightarrow K \pi^+$ channel(BR: 4%), with the ALICE detector will be shown.

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