

# BEACH 2010 - IX International Conference on Hyperons, Charm and Beauty Hadrons



Contribution ID: 86

Type: **not specified**

## Open charm production in the $D^{*+} \rightarrow D0 \pi^+$ decay channel with ALICE

Y.Wang for the ALICE Collaboration

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  $D^{*+} \rightarrow D0 + \pi^+$  (BR:68%), where  $D0 \rightarrow K \pi^+$  channel(BR: 4%), with the ALICE detector will be shown.

**Primary author:** WANG, Yifei (Uni Heidelberg)

**Presenter:** WANG, Yifei (Uni Heidelberg)