

## Contribution submission to the conference München 2009

**Study of forward jet production using  $qg^* \rightarrow qg$  in kt-factorization** — •MICHAL DEAK, KRZYSZTOF KUTAK, and HANNES JUNG — DESY, Hamburg, Notkestrasse 85, 22607 Hamburg

The QCD process  $qg^* \rightarrow qg$  in the case where the gluon carries a small of the proton's momentum and the quark carries a large fraction of the proton momentum is very important for the forward jet production at the LHC experiments. In our talk we present calculation of this process within kt factorization approach and its phenomenological implications. We simulate this process using Monte Carlo event generator CASCADE.

**Part:** T  
**Type:** Vortrag;Talk  
**Topic:** 1.1 QCD (Theorie) [Convenor: Andre Hoang]  
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