Contribution ID: **165**   Type: **not specified**

NLO Vertex for a Forward Jet plus a Rapidity Gap at High Energies

Sunday, 14 September 2014 16:10 (20 minutes)

We present the calculation of the forward jet vertex associated to a rapidity gap (coupling of a hard pomeron to the jet) in the
BFKL formalism at next-to-leading order(NLO). We handle the real emission contributions making use of the Lipatov's effective action. This result is important since it allows, together with the NLO non-forward gluon Green function, to perform NLO studies of jet production in diffractive events (Mueller-Tang dijets, as a well-known example).

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Session Classification: Progress in QCD (III)

Track Classification: Progress in QCD