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

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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).

**Primary author:** Mr MADRIGAL MARTÍNEZ, José Daniel (IPhT CEA Saclay)

**Co-authors:** Prof. SABIO VERA, Agustin (UAM); MURDACA, Beatrice (CS); Mr HENTSCHINSKI, Martin (BNL)

**Presenter:** Mr MADRIGAL MARTÍNEZ, José Daniel (IPhT CEA Saclay)

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