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The NLO jet vertex for Mueller-Navelet and forward jets in the small-cone approximation

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We calculate in the next-to-leading order the impact factor (vertex) for the production of a forward high- p_T jet, in the approximation of small aperture of the jet cone in the pseudorapidity-azimuthal angle plane. The final expression for the vertex turns out to be simple and easy to implement in numerical calculations.

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