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Four-jet and three-jet plus gamma DPS production in pp and pA collisions at the LHC

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In spite of the recent progress in both theoretical and experimental studies many aspects of *proton-proton* (pp) and *proton-nucleus* (pA) collisions still require a detail investigation. At high collision energies, the probability of simultaneous scatterings of different pairs of partons, contributing to the same inelastic event, has to be considered. In particular, *double parton scattering* (DPS) processes can play a dominant role for some specific kinematic regions of multi-jet production. The DPS measurements of pA collisions provide important complementary information to that gathered from pp collisions on the nature of multiple interactions.

In this poster I will present latest theoretical results on four-jet and three-jet plus gamma production via DPS in pp and pA collisions, as well as its dependence on different kinematical cuts and different phenomenological assumptions.

Author: Mr FEDKEVYCH, Oleh (Institute for Theoretical Physics, University of Muenster)

Presenter: Mr FEDKEVYCH, Oleh (Institute for Theoretical Physics, University of Muenster)

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