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Inclusive three- and four-jet production in multi-Regge kinematics at the LHC

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In this talk a study of differential cross sections for the production of three and four jets in multi-Regge kinematics is presented. The main focus lies on the azimuthal angle dependences in events with two forward/backward jets tagged in the final state. Furthermore, the tagging of one or two extra jets in more central regions of the detector with a relative separation in rapidity from each other is requested. It is found that the dependence of the cross sections on the transverse momenta and the rapidities of the two central jets can offer new means of studying the onset of BFKL dynamics.

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