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Title of the talk: **"Searching for gluon saturation in high energy hadron collisions"**

The so-called gluon saturation phenomenon is one of the most important aspects of strong interactions of hadrons at high energies. It is related to very general aspects of fundamental interactions like unitarity on one hand and reflects a complicated nonlinear dynamics of Quantum Chromodynamics on the other. In my presentation I give a pedagogical overview of the theory of the saturation phenomenon, some of the past experimental searches suggesting that it may have been observed and discuss some predictions for future experiments at LHC and Electron Ion Collider.