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The QGSM description of baryon production at modern colliders: average P_t vs. energy and vs. mass + charge asymmetry vs. energy.

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Characteristics of baryon production at high energy proton collisions have important implications for QCD theory and astrophysics. The detailed investigation of baryon spectra in Quark-Gluon String Model leads to the following conclusions: a) the average transverse momenta are slowly growing with energy, b) the mass dependence of P_t reveals an interesting sequence of hadron states that can be continued to new heavy mass hadrons and c) charge asymmetry of baryon at central rapidity, which was predicted in QGSM, is still valuable at LHC energies.

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