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The Hard QCD Study In Terms of the GZK Limit

We consider the pion production in collisions of ultra high energy protons with the MBR . The probability of such a process is calculated, and is found to be in the strong dependence on the quark-gluon vertex at high energies in the hard QCD limit. The relation of the obtained results to the experimental knee in the energy spectrum of ultra high energy protons allows us to get information about the quark-gluon vertex in the hard QCD.

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