

Seminarium Zakładu Fizyki Teoretycznej

Departament Badań Podstawowych
Narodowego Centrum Badań Jądrowych

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NCBJ, sala 404, Pasteura 7

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“Parton distributions and the Odderon(s)”

ABSTRACT:

The main difficulty to address the continuity of perturbative QCD between moderate and high energies was recently solved by rewriting the theoretical descriptions of both limits in terms of the same parton distributions. I will briefly discuss this equivalence, and its implication on the saturation effects which are expected at asymptotic energies. At such energies, effective particles with the quantum numbers of the vacuum are exchanged in the t channel. While the C-even exchanges are rather well known, a C-odd exchange is also expected. I will describe how the C-odd (Odderon) exchanges can be understood in terms of parton distributions, and the interesting possibility to experimentally probe distributions inside a transversely polarized hadron with unpolarized beams thanks to the Odderon.

Serdecznie zapraszamy,

M. Kowal, W. Piechocki, J. Skalski, L. Szymanowski