

XX International Workshop on Deep-Inelastic Scattering and Related Subjects



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Low x physics: a critical phenomenon?

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The DIS structure functions are expressed, in a rigorous way, as correlation functions in a quantum field theory containing a parameter r . It is shown that low x physics corresponds to the theory in the limit of r going to zero where the theory develops a large correlation length. This indicates critical behaviour. The data on F_2 are analysed in a geometric way and values for the critical indices are extracted.

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