

*Organisé conjointement par
CPHT-École Polytechnique et Groupe Théorie IPN Orsay*

SÉMINAIRE de PHYSIQUE des PARTICULES

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Light-front quantization methods: from QED to QCD

Résumé :

I present an overview of the basic concepts concerning the formalism of light-front quantization for field theories, usually applied in the framework of hadron physics. I describe some applications in the field of Quantum Electrodynamics, focusing in particular on the Transverse-Momentum Dependent distribution functions (TMDs) for the case of a dressed electron, and discuss some subtleties related to the features of the gauge-field propagator in light-cone gauge. I also give a hint about an application in the field of Quantum Chromodynamics, concerning the nucleon's energy-momentum tensor.

Jeudi 24 Novembre 2016

11:00

Salle de conférences, bât. 6