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Speaker: Guy F. de Teramond, University of Costa Rica, Costa Rica

Title: Holographic QCD in light-front quantization and superconformal algebra: An overview

Abstract:

I will present an overview of recent progress on the analytic study of the infrared structure of QCD based on the gauge/gravity correspondence in light-front quantization, where the confining interaction for mesons and baryons is determined by an underlying superconformal algebraic structure. This approach to hadron physics gives us unsuspected connections across the entire mass spectrum of hadrons. New analytic insights into nonperturbative dynamics have also followed from an extensive study of form factors, polarized and unpolarized parton distributions and the sea quark component of the nucleon by incorporating the nonperturbative structure of Veneziano amplitudes in the holographic model.