

30 years of strong interactions: a three-day meeting in honor of Joseph Cugnon and Hans-Jürgen Pirner

ID de Contribution: 6

Type: **Non spécifié**

High-Energy Scattering in the Lab and in the Early Universe

mercredi 6 avril 2011 16:30 (25 minutes)

My talk consists of two parts. In the first part, the loop-loop correlation model (LLCM) is presented which has been developed in collaboration with Hans-Juergen Pirner. This model allows for a unified description of static color dipole potentials, confining QCD strings, and hadronic high-energy reactions and shows saturation effects that manifest S-matrix unitarity at ultra-high energies. In the second part, thermal QCD reactions in the hot early Universe are discussed in a supersymmetric setting. Those reactions provide possible explanations for the origin of dark matter.

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Classification de Session: In honour of Hans-Jürgen Pirner