

# From initial gluons to hydrodynamics: Gluons inside hadrons and their thermalization

**Gluodynamics**



## Rapport sur les contributions

ID de Contribution: 1

Type: **Non spécifié**

## Welcome and introduction

**Orateurs:** MARQUET, Cyrille (CPHT - Ecole Polytechnique); WINN, Michael (DPhN/IRFU/DRF/CEA Paris-Saclay)

**Classification de Session:** Welcome and introduction

ID de Contribution: 2

Type: **Non spécifié**

## An update on nuclear PDFs

*lundi 24 octobre 2022 10:00 (25 minutes)*

**Orateur:** SCHIENBEIN, Ingo (LPSC)

**Classification de Session:** Initial state information from hard inclusive and hard exclusive particle production: session inclusive reactions

ID de Contribution: 3

Type: **Non spécifié**

## **Hadron structure beyond collinear factorization**

*lundi 24 octobre 2022 10:30 (25 minutes)*

**Orateur:** BERTONE, Valerio (IRFU, CEA, Université Paris-Saclay)

**Classification de Session:** Initial state information from hard inclusive and hard exclusive particle production: session inclusive reactions

ID de Contribution: 4

Type: **Non spécifié**

## **Gluon saturation and diffractive TMDs**

*lundi 24 octobre 2022 11:20 (25 minutes)*

**Orateur:** IANCU, Edmond (Institut de Physique Théorique de Saclay)

**Classification de Session:** Initial state information from hard inclusive and hard exclusive particle production: session inclusive reactions

ID de Contribution: 5

Type: **Non spécifié**

## **Collectivity in hadronic collisions from final-state string dynamics**

*lundi 24 octobre 2022 11:50 (25 minutes)*

**Orateur:** LÖNNBLAD, Leif

**Classification de Session:** Initial state information from hard inclusive and hard exclusive particle production: session inclusive reactions

ID de Contribution: 6

Type: **Non spécifié**

## **GPDs and UPC measurements**

*lundi 24 octobre 2022 15:20 (25 minutes)*

**Orateur:** WAGNER, Jakub (National Centre for Nuclear Research)

**Classification de Session:** Initial state information from hard inclusive and hard exclusive particle production: session exclusive reactions

ID de Contribution: 7

Type: **Non spécifié**

## **GPDs and energy-momentum tensor**

*lundi 24 octobre 2022 14:00 (25 minutes)*

**Orateur:** LORCÉ, Cédric (Ecole Polytechnique)

**Classification de Session:** Initial state information from hard inclusive and hard exclusive particle production: session exclusive reactions



ID de Contribution: 8

Type: **Non spécifié**

## **Energy-momentum tensor for the nucleus from GPDs**

*lundi 24 octobre 2022 14:30 (25 minutes)*

**Orateur:** FUCINI, Sara

**Classification de Session:** Initial state information from hard inclusive and hard exclusive particle production: session exclusive reactions

ID de Contribution: 9

Type: **Non spécifié**

## Event generators of nuclear exclusive reactions

*lundi 24 octobre 2022 15:50 (25 minutes)*

**Orateur:** TOLL, Tobias (Indian Institute of Technology Delhi)

**Classification de Session:** Initial state information from hard inclusive and hard exclusive particle production: session exclusive reactions

ID de Contribution: **10**

Type: **Non spécifié**

## Discussion round

*lundi 24 octobre 2022 16:20 (30 minutes)*

**Classification de Session:** Initial state information from hard inclusive and hard exclusive particle production: session exclusive reactions

ID de Contribution: 11

Type: **Non spécifié**

## **Geometry of hadrons and nuclei from collider experiments**

*mardi 25 octobre 2022 10:00 (25 minutes)*

**Orateur:** MÄNTYSAARI, Heikki

**Classification de Session:** Initial state information from soft particle production in hydrodynamics and transition from initial state to hydrodynamics: Initial state in hydrodynamic analysis and relation between initial stage before and after impact

ID de Contribution: 12

Type: **Non spécifié**

## QCD thermalization in kinetic theory

*mardi 25 octobre 2022 10:30 (25 minutes)*

**Orateur:** MAZELIAUSKAS, Aleksas (Universität Heidelberg)

**Classification de Session:** Initial state information from soft particle production in hydrodynamics and transition from initial state to hydrodynamics: Initial state in hydrodynamic analysis and relation between initial stage before and after impact

ID de Contribution: 13

Type: **Non spécifié**

## QCD Thermalization in 2PI formalism

*mardi 25 octobre 2022 11:20 (25 minutes)*

**Orateur:** HAUKSSON, Sitryggur

**Classification de Session:** Initial state information from soft particle production in hydrodynamics and transition from initial state to hydrodynamics: Initial state in hydrodynamic analysis and relation between initial stage before and after impact

ID de Contribution: 14

Type: **Non spécifié**

## **Sensitivity of bulk particle production to early time physics**

*mardi 25 octobre 2022 11:50 (25 minutes)*

**Orateur:** LUZUM, Matthew (University of São Paulo)

**Classification de Session:** Initial state information from soft particle production in hydrodynamics and transition from initial state to hydrodynamics: Initial state in hydrodynamic analysis and relation between initial stage before and after impact

ID de Contribution: 15

Type: **Non spécifié**

## Discussion round

*mardi 25 octobre 2022 12:20 (30 minutes)*

**Classification de Session:** Initial state information from soft particle production in hydrodynamics and transition from initial state to hydrodynamics: Initial state in hydrodynamic analysis and relation between initial stage before and after impact



ID de Contribution: 16

Type: **Non spécifié**

## **Weak-coupling scenarios of thermalization and its observation**

*mardi 25 octobre 2022 14:00 (25 minutes)*

**Orateur:** SCHLICHTING, Sören

**Classification de Session:** Initial state information from soft particle production in hydrodynamics and transition from initial state to hydrodynamics: Preequilibrium physics and observables

ID de Contribution: 17

Type: **Non spécifié**

## **Impact of preequilibrium physics on jet quenching**

*mardi 25 octobre 2022 14:30 (25 minutes)*

**Orateur:** ANDRES, Carlota

**Classification de Session:** Initial state information from soft particle production in hydrodynamics and transition from initial state to hydrodynamics: Preequilibrium physics and observables

ID de Contribution: **18**

Type: **Non spécifié**

## **Electromagnetic observables of preequilibrium**

*mardi 25 octobre 2022 15:20 (25 minutes)*

**Orateur:** STRICKLAND, Michael

**Classification de Session:** Initial state information from soft particle production in hydrodynamics and transition from initial state to hydrodynamics: Preequilibrium physics and observables

ID de Contribution: **19**

Type: **Non spécifié**

## Discussion round

*mardi 25 octobre 2022 15:50 (30 minutes)*

**Classification de Session:** Initial state information from soft particle production in hydrodynamics and transition from initial state to hydrodynamics: Preequilibrium physics and observables

ID de Contribution: **20**

Type: **Non spécifié**

## **tentative: Nuclear PDFs**

**Orateur:** SCHIENBEIN, Ingo (LPSC)

ID de Contribution: 21

Type: **Non spécifié**

## Discussion round

*lundi 24 octobre 2022 12:20 (30 minutes)*

**Classification de Session:** Initial state information from hard inclusive and hard exclusive particle production: session inclusive reactions