

## **Session Program**

**16-20 Sept 2019**



## **LC2019 - QCD on the light cone: from hadrons to heavy ions**

### ***Parallel 1***

Ecole Polytechnique, Palaiseau, France, Amphithéâtre Sophie Germain  
Centre Inria Saclay - Île-de-France Bâtiment Alan Turing 1 rue Honoré d'Estienne d'Orves Campus de  
l'École polytechnique 91120 Palaiseau

# Monday 16 September

14:45

## Parallel 1: Renormalization group procedure for effective particles

**Session** | **Location:** Alan Turing Building, Amphithéâtre Sophie Germain | **Convener:** Arkadiusz Trawiński

14:45–15:10

### Gauge boson mass as regulator of front-form dynamics

#### Speaker

Stanislaw D. Glazek

15:10–15:35

### Form factors and structure functions of heavy mesons and baryons

#### Speaker

Kamil Serafin

15:35–16:00

### $\pi\pi$ scattering on a renormalized Hamiltonian matrix

#### Speaker

Maria Gomez-Rocha

16:00

16:30

## Parallel 1: Field theories in the front form - Gauge theories on the light front

**Session** | **Location:** Alan Turing Building, Amphithéâtre Sophie Germain | **Convener:** Wayne Polyzou

16:30–16:55

### Ward-Takahashi Identity in $QED_4$ at One-loop Level in the Light-front Gauge

#### Speaker

Alfredo T. Suzuki

16:55–17:20

### Epstein-Glaser's Causal Light-Front Field Theory

#### Speaker

Oscar A. Sánchez

17:20–17:45

### Front-form approach to QED in an intense plane-wave field

#### Speaker

Sergey Bragin

17:45–18:10

### Poincaré invariant UV regularization on the light-front and mass renormalization

#### Speaker

Guillaume Beuf

18:10

## Tuesday 17 September

14:45

### Parallel 1: Chiral symmetry and QCD at finite temperature

**Session** | **Location:** Alan Turing Building, Amphithéâtre Sophie Germain | **Convener:** Urko Reinosa

14:45–15:10 **The massive gluon and the massless pion**

**Speaker**

Julien Serreau

15:10–15:35 **Chiral symmetry restoration and the thermal  $f_0(500)$  state.**

**Speaker**

Andrea V. Rodríguez

15:35–16:00 **Boson Stars and QCD Boson Stars**

**Speaker**

Usha Kulshreshtha

16:00

16:30

### Parallel 1: Hadronic structure - Generalized parton distributions

**Session** | **Location:** Alan Turing Building, Amphithéâtre Sophie Germain | **Convener:** Hervé Moutarde

16:30–16:55

**The DVCS experiment in Hall C at Jefferson Lab with the new NPS detector**

**Speaker**

Ho San KO

16:55–17:20 **A new method to compute GPDs**

**Speaker**

Cédric Mezrag

17:20–17:45

**Getting access to generalized parton distributions in exclusive photoproduction of a large invariant mass gamma-meson pair**

**Speaker**

Samuel Wallon

17:45–18:10 **Timelike Compton Scattering with CLAS12 at Jefferson Lab**

**Speaker**

Pierre Chatagnon

18:35

18:10–18:35 **Break**

# Wednesday 18 September

14:45

## Parallel 1: Hadron structure - New parton distributions

**Session** | **Location:** Alan Turing Building, Amphithéâtre Sophie Germain | **Convener:** Matthias Burkardt

14:45–15:10 **Going off the light-cone - a model study of quasi-GPDs**

**Speaker**

Shohini Bhattacharya

15:10–15:35 **Parton-pseudo distribution functions from Lattice QCD**

**Speaker**

Savvas Zafeiropoulos

15:35–16:00 **A proton imaging via double parton scattering**

**Speaker**

Matteo Rinaldi

16:00

16:30

## Parallel 1: Field theories in the front form - Light-front quantization

**Session** | **Location:** Alan Turing Building, Amphithéâtre Sophie Germain | **Convener:** Chueng-Ryong Ji

16:30–16:55

### Exploring pion and nucleon structure through basis light front quantization

**Speaker**

Chandan Mondal

16:55–17:20

### Positronium structure: an illustration of nonperturbative renormalization in a basis light-front approach

**Speaker**

Xingbo Zhao

17:20–17:45

### Some subtleties of light-front quantization

**Speaker**

Lubomir Martinovic

17:45–18:10

### Quantum Tunneling Time in the Light Front

**Speaker**

Alfredo Suzuki

18:10–18:35

### Role of Light-Front Coordinates in String Theory

**Speaker**

Daya S. Kulshreshtha

18:35