

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