

## **Session Program**

26–30 May 2025

# **The complex structure of strong interactions in Euclidean and Minkowski space**

## ***Talks***

ECT\*, Aula Renzo Leonardi  
Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

# Monday 26 May

09:15

## Talks: Monday - 1

Session | Location: ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | Convener: Orlando Oliveira

09:15–09:30 **Welcome**

**Speaker**

Ubirajara van Kolck

09:30–10:00 **Introduction and overview**

**Speaker**

Jon-Ivar Skullerud

10:00–10:45 **Testing infrared confining models beyond fundamental correlation functions**

**Speaker**

Leticia Faria Domingues Palhares

10:45

11:15

## Talks: Monday - 2

Session | Location: ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | Convener: Orlando Oliveira

11:15–12:00

**Radiative corrections in the Refined Gribov-Zwanziger framework and its coupling to matter**

**Speaker**

Antonio Pereira

12:00–12:45

**The Bell-CHSH inequality in 2D fermion theories: numerical and formal study via bumpified Haar wavelets, from free to interacting case**

**Speaker**

David Dudal

12:45

14:15

## Talks: Monday - 3

Session | Location: ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | Convener: Marcela Peláez

14:15–14:45 **Center vortices and gluon mass generation**

**Speaker**

GASTAO KREIN

14:45–15:15 **Constructing Local Gauge-Invariant Operators: The Higgs Model as a Case Study**

**Speaker**

Giovani Peruzzo

15:30

## Tuesday 27 May

09:15

### Talks: Tuesday - 1

Session | Location: ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | Convener: Jon-Ivar Skullerud

09:15–10:00 **Mesons, baryons and the confinement/deconfinement transition.**

**Speaker**

Urko Reinosa

10:00–10:45 **Goldstone bosons at finite temperature**

**Speaker**

Peter Lowdon

10:45

11:15

### Talks: Tuesday - 2

Session | Location: ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | Convener: Jon-Ivar Skullerud

11:15–12:00 **The gluon propagator at finite temperature and density**

**Speaker**

Giorgio Comitini

12:00–12:45 **The setting sun diagram with complex external momenta**

**Speaker**

Duijfe van Egmond

12:45

14:15

### Talks: Tuesday - 3

Session | Location: ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | Convener: GASTAO KREIN

14:15–14:45 **S-matrix approach to the Thermodynamics of Hadrons**

**Speaker**

Pok Man Lo

14:45–15:15 **Finite Volume Thermodynamics in a Magnetic Field**

**Speaker**

Prabal Adhikari

15:30

# Wednesday 28 May

09:15

## Talks: Wednesday - 1

Session | Location: ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

09:15–10:00 **Parton fragmentation functions as a timelike extension of distribution functions**

**Speaker**

Prof. Craig Roberts

10:00–10:45 **Kaon distribution functions from empirical information and all-orders evolutions**

**Speaker**

José Rodríguez-Quintero

10:45

11:15

## Talks: Wednesday - 2

Session | Location: ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

11:15–12:00 **Emergent Hadron Mass and Pion/Kaon/Nucleon Form Factors**

**Speaker**

Dr Daniele Binosi

12:00–12:45 **Distribution Functions Using Continuum Schwinger Function Methods**

**Speaker**

Dr Minghui Ding

12:45

14:15

## Talks: Wednesday - 3

Session | Location: ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

14:15–14:45 **Distribution Functions of a Radially Excited Pion**

**Speaker**

Zhen-Ni Xu

14:45–15:15 **Gravitational form factors from Continuum Schwinger methods**

**Speaker**

Zhaoqian Yao

15:30

# Thursday 29 May

09:15

## Talks: Thursday - 1

**Session** | **Location:** ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | **Convener:** Maria Gomez Rocha

09:15–10:00 **Excited charm/charmonium mesons and exotics from lattice QCD**

**Speaker**

Christopher Thomas

10:00–10:45

**Extracting Phenomenology from Dyson-Schwinger equations: The  $\Lambda^3P_0$  Model and (Hybrid) Meson Decays**

**Speaker**

Alexandre Salas-Bernárdez

10:45

11:15

## Talks: Thursday - 2

**Session** | **Location:** ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | **Convener:** Maria Gomez Rocha

11:15–12:00 **Unveiling the Strong Interaction origin of Baryon Masses with Lattice QCD**

**Speaker**

Yi-Bo Yang

12:00–12:45 **Multiquark states with functional methods**

**Speaker**

Gernot Eichmann

12:45

14:15

## Talks: Thursday - 3

**Session** | **Location:** ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | **Convener:** David Dudal

14:15–15:00 **Exploring three-point functions in the complex plane**

**Speaker**

Markus Huber

15:00–15:30 **Hadronic Structure and Contour Deformations**

**Speaker**

Eduardo Ferreira

15:30

## Friday 30 May

09:15

### Talks: Friday - 1

**Session** | **Location:** ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | **Convener:** Leticia Faria Domingues Palhares

09:15–10:00 **New Methods in Numerical Analytic Continuation**

**Speaker**  
William Jay

10:00–10:45 **Breaking through the complexity of QCD in the Minkowski space-time**

**Speaker**  
Stanislaw Glazek

10:45

11:15

### Talks: Friday - 2

**Session** | **Location:** ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento) | **Convener:** Leticia Faria Domingues Palhares

11:15–12:00 **Semiclassics for QCD vacuum structure via  $T^2$  compactification**

**Speaker**  
Yui Hayashi

12:00–12:45 **Polyakov Loop and Center Symmetry: Interpretations in Euclidean and Minkowski Space**

**Speaker**  
Thomas Cohen

12:45

14:45

### Talks: Closing

**Session** | **Location:** ECT\*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

14:45–15:00 **Closing**

15:00