

## Programa

1-5 de septiembre de 2025

IWHSS  
QCD-N

2025



# Joint International Workshop on Hadron Structure and Spectroscopy (IWHSS 2025) and the QCD Structure of the Nucleon (QCD-N'25)

Centro Carlos Santamaría  
Plaza Elhuyar, 2 20018 San Sebastián Spain

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# lun, 1 de septiembre

9:00  
11:00  
9:00  
10:30  
10:30  
11:00  
11:00  
13:00  
13:00  
14:30  
14:30

|                                                                                                                                                                                                                    |                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Registration: Registration</b><br><b>Sesión</b>   <b>Ubicación:</b> Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain                                                                        |                                                                                                                                            |
| <b>COMPASS Collaboration Meeting: COMPASS Collaboration Meeting</b><br><b>Sesión</b>   <b>Ubicación:</b> Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain   <b>Convocante:</b> Bakur Parsamyan |                                                                                                                                            |
| <b>Coffee</b><br><b>Descanso</b>                                                                                                                                                                                   |                                                                                                                                            |
| <b>Monday: Monday Morning Block B</b><br><b>Sesión</b>   <b>Ubicación:</b> Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain                                                                    |                                                                                                                                            |
| 11:00-11:20                                                                                                                                                                                                        | <b>Overview of <math>\alpha_S</math> extractions</b><br><br><b>Ponente</b><br>Oleksandr Zenaiev                                            |
| 11:25-11:40                                                                                                                                                                                                        | <b>A precise <math>\alpha_s</math> determination from the R-improved QCD Static Energy</b><br><br><b>Ponente</b><br>José Manuel Mena Valle |
| 11:45-12:05                                                                                                                                                                                                        | <b>Light-Meson Spectroscopy at COMPASS</b><br><br><b>Ponente</b><br>Julien Beckers                                                         |
| 12:10-12:30                                                                                                                                                                                                        | <b>Light-meson spectroscopy with GlueX and beyond</b><br><br><b>Ponente</b><br>Alexander Austregesilo                                      |
| 12:35-12:55                                                                                                                                                                                                        | <b>News and perspectives from BES-III experiment</b><br><br><b>Ponente</b><br>Francesco Rosini                                             |
| <b>Lunch</b><br><b>Descanso</b>                                                                                                                                                                                    |                                                                                                                                            |
| <b>Monday: Monday Afternoon Block A</b><br><b>Sesión</b>   <b>Ubicación:</b> Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain                                                                  |                                                                                                                                            |
| 14:30-14:50                                                                                                                                                                                                        | <b>Status of the MUSE experiment</b><br><br><b>Ponente</b><br>Tigran Rostomyan                                                             |
| 14:55-15:10                                                                                                                                                                                                        | <b>Exotic Mesons in Hadro and Photoproduction</b>                                                                                          |

## Ponente

Vincent Mathieu

15:15-15:30

## Investigating $\eta'$ and $\eta$ Final States in the Double-Regge Region at COMPASS

## Ponente

Henri Clemens Pekeler

15:35-15:50

## Understanding photoproduction of $\eta\pi$ and $\eta'\pi$ in the double Regge region

## Ponente

## Gloria Montana

15:55-16:10

# Molecular-type hidden charm pentaquarks with an improved unitarization method

## Ponente

Volodymyr Magas

16:15

16:15

16:45

16:45

# Coffee

## Descanso

## Monday: Monday Afternoon Block B

**Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

16:45-17:05

## AMBER overview

## Ponente

Thomas Poschl

17:10-17:25

## The Pion Parton Distribution Puzzle in the Valence Region.

## Ponente

Misak Sargsian

17:30-17:45

## The perturbative QCD study of the fine structure of pion

## Ponente

Shan Cheng

17:50-18:05

## Pion Transverse Charge Density from Logarithmic Dispersion Relations

## Ponente

Pablo Sanchez Puertas

18:10-18:25

# Probing the Pion Structure Beyond the Valence Sector in Light-Front Dynamics

## Ponente

Poonam Choudhary

18:30-18:45

## Hadron Cross Sections and Uncertainties in Cosmic Antiproton Production & Beyond

## Ponente

Jennifer Rittenhouse West

19:10

20:30  
22:30

**Social Program: Reception (Miramar Palace)**  
**Sesión** | **Ubicación:** Palacio Miramar

# mar, 2 de septiembre

9:00

## Tuesday: Tuesday Morning Block A

**Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

9:00–9:25 **On the extraction of collinear distributions**

**Ponente**

Valerio Bertone

9:30–9:50 **Overview of Generalized Parton Distributions (GPDs)**

**Ponente**

Jianwei Qiu

9:55–10:10 **Generalized parton distributions from lattice QCD**

**Ponente**

Hervé Dutrieux

10:15–10:35 **COMPASS GPD Programme**

**Ponente**

Po-Ju Lin

10:40–11:00 **DVCS studies with CLAS12**

**Ponente**

Silvia Niccolai

11:00

11:05

## Coffee

**Descanso**

11:35

11:35

## Tuesday: Tuesday Morning Block B

**Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

11:35–11:55 **Hard Exclusive Meson Production at COMPASS**

**Ponente**

Kamil Augsten

12:00–12:20 **Hard Exclusive  $\pi^0$  Meson Electroproduction**

**Ponente**

Valery Kubarovsky

12:25–12:40 **The nonlocal vector current and its relation to the trace anomaly**

**Ponente**

Alessio Carmelo Alvaro

12:45–13:00

**Lepton and heavy-quark pair production in UPCs as a probe of photon GTMDs**

**Ponente**

Cristian Pisano

13:05

13:05

14:05

14:05

**Lunch****Descanso**

14:05

**Tuesday: Tuesday Afternoon Block A****Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

14:05-14:20

**Production of two pairs of heavy quarks at NLO in collinear factorisation at the LHC and the EIC****Ponente**

Allencris John Rubesh Rajan

14:25-14:45

**EIC Status and Prospects****Ponente**

Maria Zurek

14:50-15:10

**Jefferson Lab: Present and Future****Ponente**

Patrizia Rossi

15:30

16:30

**Social Program: Boat Tour****Sesión**

18:30

18:30

20:30

**Pintxo tour****Contribución** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

## mié, 3 de septiembre

9:00

**Wednesday: Wednesday Morning Block A****Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

9:00–9:15

**Partial-wave decomposition of the diffractively produced  $\pi^-\pi^+\pi^-\eta$  final state at COMPASS****Ponente**

David Benjamin Spulbeck

9:20–9:40

**Review of the newest HERA QCD results.****Ponente**

Katarzyna Wichmann

9:45–10:05

**Five Decades of the E-Jaffe Sum Rule****Ponente**

Jonathan R. Ellis

10:10–10:30

**HERMES - The early years****Ponente**

Klaus Willi Rith

10:35–10:55

**HERMES@DESY - the lab's view****Ponente**

Manfred Fleischer

11:00

11:00

11:30

**Coffee****Descanso**

11:30

**Wednesday: Wednesday Morning Block B****Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

11:30–11:50

**Polarized He3: from HERMES to CLAS****Ponente**

Richard Milner

11:55–12:15

**Pushing the boundaries --birth of SSAs****Ponente**

Harut Avakian

12:20–12:45

**Transverse spin and momentum: 20 years of progress****Ponente**

Alessandro Bacchetta

12:50–13:25

**HERMES - Physics Overview****Ponente**

Gunar Schnell

13:30

13:30

**Lunch****Descanso**

15:30

13:30

**Wednesday: HERMES Virtual Reunion****Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

13:30–13:35

**QCD-N'02 and QCD-N'06****Ponente**

Enzo De Sanctis

13:35–13:40

**HERMES ABS****Ponente**

Hrachya Marukyan

13:40–13:45

**HERMES Memories****Ponentes**

Denis Veretennikov, Denis Veretennikov

15:30

15:30

**Wednesday: Wednesday Afternoon Block A****Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

15:30–15:50

**Insights into Nucleon Transverse Spin: Recent COMPASS Results from SIDIS****Ponente**

Jan Matousek

15:55–16:10

**COMPASS and HERMES contributions to polarized TMDs****Ponente**

Filippo Delcarro

16:15–16:35

**Transverse Spin at JLab****Ponente**

Marco Contalbrigo

16:40–17:00

**Overview of the Jefferson Lab Hall C SIDIS Experimental Program****Ponente**

Edward Kinney

17:05

17:05

**Coffee****Descanso**

17:35

17:35

**Wednesday: Wednesday Afternoon Block B****Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

17:35–17:55

**The Cold QCD program at RHIC****Ponente**

Zilong Chang

18:00–18:15

**Theoretical Progress on Transverse Single-Spin Asymmetries****Ponente**

Marc Schlegel

18:20–18:35

**The simultaneous global QCD analysis of transverse momentum dependent and collinear parton distributions****Ponente**

Alexey Prokudin

18:40–18:55

**Transverse Momentum Effects in Unpolarized Semi-Inclusive DIS at COMPASS****Ponente**

Vendula Benesova

19:00–19:15

**New insights on flavor dependence in proton and pion TMD extractions****Ponente**

Lorenzo Rossi

19:20

# jue, 4 de septiembre

9:00

## Thursday: Thursday Morning Block A

**Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

9:00–9:15

### Partonic structure of hadrons & TMD factorization beyond leading power

**Ponente**

Leonard Gamberg

9:20–9:35

### Kinematic power corrections in TMD factorization

**Ponente**

Sara Piloñeta Álvarez

9:40–9:55

### One-loop renormalization of quark TMD in the light-cone gauge: Collins-Soper-Sterman evolution

**Ponente**

Jamal Jalilian-Marian

10:00–10:15

### Quark-gluon-quark interference within proton

**Ponente**

Alexey Vladimirov

10:20–10:35

### Three-loop jet function for boosted heavy quarks

**Ponente**

Alberto Martín Clavero

10:40–10:55

### Double quarkonium production in hadronic collisions at fixed-target experiments

**Ponente**

Carlo Flore

11:00

11:00

11:30

11:30

## Coffee

**Descanso**

## Thursday: Thursday Morning Block B

**Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

11:30–11:50

### fragmentation function measurements at B factories

**Ponente**

Ralf Seidl

11:55–12:10

### Fragmentation Function Measurements at BESIII

**Ponente**

Xiao-Rui Lyu

12:15–12:30

### New Insights into Lambda Fragmentation Functions

**Ponente**

Alessia Bongallino

12:35-12:50

**Spin-transfer to Lambda hyperons in DIS****Ponente**

Denis Veretennikov

12:55-13:10

**Longitudinal Spin Transfer to  $\Lambda$  Hyperons in Semi-Inclusive Deep Inelastic Scattering with CLAS12****Ponente**

Matthew McEneaney

13:15-13:30

**Simulation of spin effects for baryon production in deep inelastic scattering****Ponente**

Albi Kerbizi

13:35

13:35

**Lunch****Descanso**

15:05

15:05

**Thursday: Thursday Afternoon Block A****Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

15:05-15:20

**Dihadron Spin Asymmetries at CLAS12****Ponente**

Gregory Matousek

15:25-15:40

**Measurements of hadron pair asymmetries in SIDIS at COMPASS****Ponente**

Anna Martin

15:45-16:00

**A new determination of di-hadron fragmentation functions, from  $e^+e^-$  BELLE data at  $\sqrt{S} = 10.58$  GeV.****Ponente**

Luca Polano

16:05-16:20

**Hadronization Research at Belle II****Ponente**

Katherine Parham

16:25-16:45

**The muon anomalous magnetic moment: is the anomaly still anomalous?****Ponente**

Pere Masjuan

16:50

17:00

**Social Program: Chillida Leku****Sesión**

19:30

**Social Program: Conference Dinner****Sesión** | **Ubicación:** El Vaskito

21:00

23:00

# vie, 5 de septiembre

9:00

## Friday: Friday Morning Block A

**Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

9:00–9:15

### A General Method for Multiquark Wavefunctions Using Representations of $S_n$

**Ponente**

Nicholas Miesch

9:20–9:35

### SeaQuest

**Ponente**

Paul Reimer

9:40–9:55

### Nuclear dependence of Drell-Yan Cross Section at Fermilab's E906 experiment

**Ponente**

Harsha Arachchige

10:00–10:15

### Highlights and perspectives from the sPHENIX experiment

**Ponente**

Nicole D'Hose

10:20–10:35

### Measurement of neutral meson transverse single-spin asymmetry in polarized pp collisions at sPHENIX

**Ponente**

Virgile Mahaut

10:40–10:55

### Hadron-in-jet production in $pp$ collisions: TMD phenomenology

**Ponente**

Umberto D'Alesio

11:00

11:00

11:30

11:30

## Coffee

Descanso

## Friday: Friday Morning Block B

**Sesión** | **Ubicación:** Centro Carlos Santamaría, Plaza Elhuyar, 2 20018 San Sebastián Spain

11:30–11:45

### Insights into Nucleon Spin and 3D Structure in the COMPASS Drell-Yan Programme

**Ponente**

Malgorzata Rozalia Niemiec

11:50–12:05

### LHCspin: a polarized fixed-target experiment at the LHC

**Ponente**

Luciano Libero Pappalardo

12:10–12:25

## SpinQuest: Polarized Target Operation and $\sqrt{s}$ Transverse Single Spin Asymmetry Analysis

**Ponente**

Nuwan Chaminda Gunawardhana Waduge

12:30–12:45

## SpinQuest Experiment: highlights and future prospects

**Ponente**

Vaniya Ansari

12:50–13:05

## SPD project at NICA

**Ponente**

Elena Zemlyanichkina

13:30

13:30

15:30

## Lunch

Descanso