

# PROGRAM FRISNO-17

## Sunday March 16, 2025

16:00 - 24:00 Arrival and check-in

19:00 – 21:00 Dinner buffet

## Monday March 17, 2025

8:30 **Opening Remarks** Robert

**Session Mon-A:** Chair:

8h50 Invited 1 Pierre Agostini

9:30 S1 Aaron Liberman

10:00 S2 Noa Yaffe

Spectrally Resolving the Wavefront of Ultrashort Laser Pulses  
Attosecond transient vectorial spectroscopy

10:30 **Coffee Break**

**Session Mon-B:** Chair:

10h50 Invited 2 Antoine Browaeys

11:30 S3 Barak Dayan

12:00 S4 Omer Amit

Single atoms for photonic quantum information, and photonic quantum information for single atoms  
Toward a Hydrogen Optical Clock

12:30 **Lunch and Afternoon break**

**Session Mon-C:** Chair:

17:30 S5 Sara Ducci

18:00 S6 Muhammad Erew

18:30 S7 Yanis Trouyet

Nonlinear AlGaAs photonic chips for hybrid quantum devices and HOM-based metrology  
Composite Segmented Scheme for Robust SPDC Generation  
Non-local wavefront shaping using entangled photons

19:00 **End of Session**

19:30 **Dinner**

20:30 **Poster session Mon-P**

## Tuesday March 18, 2025

**Session Tue-A:** Chair:

9:00 Invited 3 Ewold Verhagen

9:40 S8 Mai Tal

10:10 S9 Giuseppe Leo

Tailored Phase Matching in Nonlinear Metaslab Waveguides  
Unravelling the nonlinear generation of designer vortices with dielectric metasurfaces

10:40 **Coffee Break**

**Session Tue-B:** Chair:

11:00 Invited 4 Gabriela Schlaw-Cohen

11:40 S10 Herve Rigneault

12:10 S11 Adrian Makowski

Wide field nonlinear microscopy using speckle fields  
Non-Invasive Imaging Through Dynamic Diffusers in the Photon Counting Regime

12:40 **Lunch and Afternoon break**

**Session Tue-C:** Chair:

17:30 Invited 5 Robin Kaiser

18:10 S12 Moshe Harats

18:40 S13 Joesph Delpy

Optical excitations of 2-dimensional materials non-uniformly strained at cryogenic temperatures  
Hallmarks of collective behavior in the spin noise spectrum of a dense rubidium vapor

19:10 **End of Session**

19:30 **Dinner**

20:30 **Poster session Tue-P**

## Wednesday March 19, 2025

**Session Wed-A:** Chair:

9:00 Invited 6 Jacek Kasprzak

9:40 S14 Alon Ron

10:10 S15 Olivier Faucher

Coherent control of phonon anharmonicity  
Molecular alignment induced through electronic resonance

10:40 **Coffee Break**

**Session Wed-B:** Chair:

10:50 Invited 7 Hugo Defienne

11:30 S16 Inbar Hurvitz

12:00 S17 Julien Bertrand

Reconstructing the joint spectral amplitude of bi-photon states using crystal-based interferometry  
Experimental demonstration and modeling of third-order triple photon generation stimulated over one mode

12:30 **Lunch and Afternoon break**

**Session Wed-C:** Chair:

17:00 **Special conference** Aurelien Drezet

18:00 Invited 8 Yonathan Sivan

18:40 S18 Yehuda Band

Louis de Broglie 1923-1925: Does the future of quantum physics lie in its past?

Negative Refraction in isotropic achiral and chiral materials

19:10 **End of Session**

19:30 **Conference Dinner**

## Thursday March 20, 2025

**Session Thu-A:** Chair:

8:50 Invited 9 Maryna Merestka

9:30 S19 Tomer Bucher

10:00 S20 Marcos Dantus

Ultrafast dynamics of correlated optical singularities  
Visualizing the Ultrafast Fragmentation of Polyatomic Molecules After Electron-Impact Ionization

10:30 **Coffee Break**

**Session Thu-B:** Chair:

10:50 Invited 10 Ido Kaminer

11:30 S21 Soumitra Hazra

12:10 S22 Hilton de Aguiar

Ultrafast Triggering of Strong Light-Matter Coupling in a Semiconductor Terahertz Fabry-Perot Cavity  
High-speed compressive Raman imaging

12:50 **Lunch and Afternoon break**

13:45 - 17:30: **Excursion**

**Session Thu-C:** Chair:

18:00 S23 Zeev Zalevsky

Super-resolved localized all-optical photoacoustic sensing and its implementation for measurement

18:30 S24 Omri Haim of localized chirality in crystal suspensions  
Image-guided Computational Holographic Wavefront Shaping  
19:00 End of Session  
19:30 Dinner  
20:30 Poster session Thu-P

**Friday, March 21, 2025**

**Session Fri-A:** **Chair:**  
9:00 S25 Matan Even Tzur Controlling high harmonic generation with squeezed light  
9:30 S26 Baptiste Courme Focusing entangled state through scattering media via coincidence-based feedback  
10:00 S27 Patrick Sebbah Photon Sphere Modes and Black Hole Lasing in Curved Optical Microcavities  
10:30 Coffee Break  
**Session Fri-B:** **Chair:**  
11:00 S28 Amit Finkler Using quantum emitters for nanoscale MRI  
11:30 S29 Moti Fridman Temporal Quantum Optics  
12:00 Concluding remarks : Benoit / Dan  
12:15 Lunch  
13:30 End of the Conference