

# DIM QUANTIP ANNUAL MEETING

May 29th 2024

Amphi 1, Room M100, Université Sorbonne Paris Nord, 99 avenue Jean-Baptiste Clément, 93430 Villetaneuse

## PROGRAM

**8H30 - 9H00** Welcome coffee and installation of posters

**9H00 - 9H30** QuanTiP : Opening and introduction  
Hélène Perrin and Senka Cuk (LPL)

AXIS : Animation

**9H30 - 9H40** Presentation and review of the axis  
Jérôme Lodewyck (SYRTE)

Europe and international

**9H40 - 9H50** Quantum Flagship  
Philippe Grangier (IOGS)

AXIS : Quantum computing

**9H50 - 10H00** Presentation and review of the axis  
Patrice Bertet (SPEC)

**10H00 - 10H25** Interacting laser-trapped circular Rydberg atoms  
Clément Sayrin (LKB)

**10H25 - 10H45** Coffee break

AXIS : Enabling sciences and technologies

**10H45 - 10H55** Presentation and review of the axis  
Alexandre Tallaire (IRCP)

**10H55 - 11H20** 2D hexagonal boron nitride synthesis by plasma and induction for quantum sensors  
Claudia Lazzaroni (LPSM)

AXIS : Quantum sensors and metrology

**11H20 - 11H30** Presentation and review of the axis  
Franck Pereira dos Santos (SYRTE)

**11H30 - 11H55** Optical control of an ultra-cold quantum mechanical resonator  
Adrien Borne (MPQ)

**11H55 - 14H00** Lunch and poster session

AXIS : Scientific valorization

**14H00 - 14H10** Presentation and review of the axis  
Matthieu Delbecq (LPENS)

**14H10 - 14H35** Continuous variable entanglement-based and frequency multiplexed quantum cryptography  
Valentina Parigi (LKB)

AXIS : Quantum simulations

**14H35 - 14H45** Presentation and review of the axis  
Laurent Sanchez-Palencia (CPHT)

**14H45 - 15H10** Does the Su-Schrieffer-Heeger model describe a topological insulator?  
Jean-Noël Fuchs (LPTMC)

AXIS : Quantum communications

**15H10 - 15H20** Presentation and review of the axis  
Alex Bredariol Grilo (LIP6)

**15H20 - 15H45** Tight and general security proofs for quantum key distribution  
Thomas Van Himbeeck (Télécom Paris)

**15H45 - 17H00** Board game session and poster session

**17H00 - 17H15** A word from QuanTiP scientific committee and poster prize announcement

FOLLOW US ON LINKEDIN



Quantip

Domaine de Recherche et d'Innovation Majeur

Région  
île de France