

Pregramme des sessions

3-21 nov. 2025

Astroparticle Symposium 2025

Talk

Institut Pascal
Rue André Rivière 91400 Orsay

lun. 3 novembre

11:00

Talk: Dark Sector: new technologies

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay

11:00 – 11:30 Introduction and Coffee Break

11:30 – 12:00 Search for dark matter with SNSPDs: the QROCODILE experiment

Orateur

Chiara Capelli

12:00 – 12:30

QUEST-DMC: QUantum Enhanced Superfluid Technologies for Dark Matter and Cosmology

Orateur

Robert Smith

12:30

14:30

Talk: Infrastructures

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay

14:30 – 15:00 The Modane Underground Laboratory

Orateur

Silvia Scorza

15:00

mar. 4 novembre

09:30

Talk: Dark Sector: Solid State Detectors

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay

09:30 – 10:00 **One Electron at a Time: Skipper-CCD and beyond**

Orateur

Javier Tiffenberg

10:00 – 10:30

Search for millicharged particles with Skipper-CCDs at particle accelerators.

Orateur

Santiago Perez

10:30 – 11:00

The DAMIC-M experiment: light dark matter in a kg-scale Skipper CCD detector

Orateur

Nicolás AVALOS

11:00 – 11:15 **Appel à Programme Institut Pascal**

11:15 – 11:45 **Coffee Break**

11:45 – 12:15 **Overview of the future TESSERACT experiment at LSM**

Orateur

Julien BILLARD

12:15 – 12:45 **The SuperCDMS Experiment at SNOLAB**

Orateur

Matthew Stukel

12:45 – 13:15 **Search for light dark matter with CRESST-III**

Orateur

Paolo Gorla

13:15

mer. 5 novembre

09:30

Talk: Dark Sector: Liquid and Gaseous Detectors

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay

09:30 – 10:00 **Xenon detectors for light dark matter searches**

Orateur
Jelle Aalbers

10:00 – 10:30 **The future of the liquid argon technology in astroparticle physics**

Orateur
Davide Franco

10:30 – 11:00 **Searching for Light Dark Matter with the NEWS-G Experiment**

Orateur
Marie-Cecile Piro

11:00 – 11:30 **Coffee Break**

11:30 – 12:00
PandaX: Large Scale Underground Liquid Xenon Observatory for Dark Matter and Neutrinos

Orateur
Shaobo Wang

12:00 – 12:30 **Dark matter searches with helium targets in TESSERACT**

Orateur
Knut Moraa

12:30

jeu. 6 novembre

09:30

Talk: Axion Detectors

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay

09:30 – 10:00 **Axion dark matter searches with the DAWA experiment**

Orateur

Laurent Chevalier

10:00 – 10:30

The IAXO and BabyIA XO Experiments: Status, Detector Developments, and Future Prospects

Orateur

Esther Ferrer Ribas

10:30 – 11:00 **Recent Results and Current Efforts from BREAD**

Orateur

Gabe Hoshino

11:00 – 11:30 **Coffee Break**

11:30 – 12:00 **Searching for Dark Matter with MADMAX**

Orateur

David Leppia-Weber

12:00 – 12:30 **Status report on the ADMX and QSHS instruments**

Orateur

Ed Daw

12:30

ven. 7 novembre

09:30

Talk: Dark Sector and Axions, Experiments meet Theory

Session | Site: Institut Pascal, Rue André Rivière 91400 Orsay

09:30 – 10:00 Axions and Other Wave-Like Dark Matter Candidates

Orateur

Andreas Ringwald

10:00 – 10:30

Observables alternative to WIMP and FIMP candidates, recent developments

Orateur

Prof. Yann Mambrini

10:30 – 11:00 X-ray tests of sub-GeV DM

Orateur

Marco Cirelli

11:00 – 11:30 Coffee Break

11:30 – 12:30 Round Table: Experimentalists and Theorists

12:30

mer. 12 novembre

08:30

Talk: Is inflation on the Run?

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Lucien Heurtier

08:30 – 08:50 **Is inflation on the Run?**

Orateur

Lucien Heurtier

08:50

08:50

Talk: Phenomenology of Inflaton Fragmentation

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Marcos Garcia

08:50 – 09:10 **Talk: Phenomenology of Inflaton Fragmentation**

Orateur

Marcos Garcia

09:10

09:10

Talk: (P)reheating fermions in a quartic inflaton potential

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Nabeen Bhusal

09:10 – 09:30 **(P)reheating fermions in a quartic inflaton potential**

Orateur

Nabeen Bhusal

09:30

09:30

Talk: Asymmetric Reheating: Thermalization and relics of a Hidden sector

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Simon Cléry

09:30 – 09:50 **Asymmetric Reheating: Thermalization and relics of a Hidden sector**

Orateur

Simon Cléry

09:50

10:20

Talk: PBH hotspot and dark matter production

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Mathieu Gross

10:20 – 10:40 **PBH hotspot and dark matter production**

Orateur

Mathieu Gross

10:40

10:40

Talk: Taming the dark photon production via a non-minimal coupling to gravity

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Jong-Hyun Yoon

10:40 – 11:00

Taming the dark photon production via non-minimal coupling to gravity

Orateur

Jong-Hyun Yoon

11:00

11:00

Talk: Primordial Black Holes in a Thermal Bath: Cosmological Implications

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Riajul Haque

11:00 – 11:20

Primordial Black Holes in a Thermal Bath: Cosmological Implications

Orateur

Riajul Haque

11:20

11:20

Talk: Radiative corrections in Starobinsky inflation

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Wenqi Ke

11:20 – 11:40

Radiative corrections in Starobinsky inflation

Orateur

Wenqi Ke

11:40

13:30

Talk: Inflationary particle production

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Oleg Lebedev

13:30 – 13:50

Inflationary particle production

Orateur

Oleg Lebedev

13:50

13:50

Talk: Ultra-relativistic freeze-out during the reheating epoch: cold dark matter from a hot birth

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Stephen Henrich

13:50 – 14:10

Ultra-relativistic freeze-out during the reheating epoch: cold dark matter from a hot birth

Orateur

Stephen Henrich

14:10

14:10

Talk: Quantum Sensors in the Search for Ultralight Axion-like Dark Matter

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Sreemanti Chakraborti

14:10 – 14:30

Quantum Sensors in the Search for Ultralight Axion-like Dark Matter

Orateur

Sreemanti Chakraborti

14:30

15:00

Talk: Higgs pole inflation and its realizations

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Hyun Min Lee

15:00 – 15:20

Higgs pole inflation and its realizations

Orateur

Hyun Min Lee

15:20

15:20

Talk: Infrared fluctuations from Inflation: Dark Matter and its GW Signatures**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Debaprasad Maity

15:20 – 15:40

Infrared fluctuations from inflation: Dark Matter and its GW Signatures**Orateur**

Debaprasad Maity

15:40

15:40

Talk: Dark matter spikes as a laboratory for particle physics**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Alejandro Ibarra

15:40 – 16:00

Dark matter spikes as a laboratory for particle physics**Orateur**

Alejandro Ibarra

16:00

16:30

Talk: Inflaton Quanta: A Window into Reheating?**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Kunio Kaneta

16:30 – 16:50

Inflaton Quanta: A Window into Reheating?**Orateur**

Kunio Kaneta

16:50

16:50

Talk: Self-Gravity in Superradiance Clouds: Implications for Binary Dynamics and Observational Prospects**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Hyungjin Kim

16:50 – 17:10

Self-Gravity in Superradiance Clouds: Implications for Binary Dynamics and Observational Prospects**Orateur**

Hyungjin Kim

17:10