

Pregramme des sessions

7-25 juil. 2025

Interstellar Institute 7

Talk

Institut Pascal
Rue André Rivière 91400 Orsay

lun. 7 juillet

10:00

Talk: Super-Extended Multi-Parsec Dust Emission, and Strange Dust Properties, Revealed Around AGB Stars

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

10:25

10:25

Talk: Statistical Analysis of PAHs as a Tracer of Anomalous Microwave Emission

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

10:50

10:50

Talk: Constraints on rotational disruption of dust grains based on the survival of the zodiacal cloud

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

11:15

11:15

Talk: Dusty-PRISM: Predicting the evolution of dust and PAHs across cosmic time with cosmic rays, magnetic fields and radiation-hydrodynamics simulations of galaxy formation

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Francisco Rodriguez Montero

11:40

mar. 8 juillet

10:00

Talk: The Impact of Chemistry on Multiphase ISM Simulations**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Munan Gong

10:25

10:25

Talk: Impact of the Supernova remnants in the interstellar matter of our galaxy**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Guillaume Vigoureux

10:50

10:50

Talk: JWST observations of the magnetized ISM in the Pleiades**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** François Boulanger

11:15

11:15

Talk: Local Map of Interstellar UV Field**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** David Lomeli

11:40

mer. 9 juillet

10:00

Talk: Deep 21cm observations of nearby galaxies**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Laurent Chemin

10:25

10:25

Talk: Spatial Structure of Cold HI Gas Properties in the Milky Way with GASKAP**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Callum Lynn

10:50

10:50

Talk: Reconstructing the ISM with Bayesian Spectral Models**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Trey Wenger

11:15

11:15

Talk: A consistent view of the dusty, polarized Galaxy: from magnetically aligned HI gas to polarization power spectra**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Andrea Bracco

11:40

14:00

Talk: Bayesian Spectral Models**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Trey Wenger

14:25

jeu. 10 juillet

10:25

Talk: Unveiling the CO-dark gas properties of our Galaxy

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

10:50

10:50

Talk: Mapping 3D Distributions of HI and CO in the Milky Way

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

11:15

11:15

Talk: Scattering Transforms in astrophysics, application to components separation

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

11:40

14:00

Talk: Pulsar timing : DM, RM and HI absorption

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsables de session:**
Marc-Antoine Miville-Deschênes, Pauline Noé

15:00

ven. 11 juillet

10:00

Talk: Magnetic fields in the multiphase ISM of the Milky Way**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Amit Seta

10:25

10:25

Talk: Angular momentum in molecular clouds and filaments: Transfer mechanisms, 3D dynamics, and relative orientation with respect to outflows**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:**
Griselda Arroyo-Chavez

10:50

10:50

Talk: Ambipolar diffusion and the mass-to-flux ratio in turbulent collapsing clouds**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Aris Tritsis

11:15

11:15

Talk: Gravity at work: energy budget in simulated molecular clouds**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Vianey Camacho

11:40

lun. 14 juillet

10:00

Talk: High-Altitude Clouds in the Solar Neighborhood: Connecting 3D Dust Maps and HI Gas Kinematics

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Theo O'Neill

10:25

10:25

Talk: Reconstructing the 3+1D Velocity Field of the Milky Way from Dust Absorption

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

10:50

10:50

Talk: Reconstructing the 3+1D Velocity Field of the Milky Way from Dust Absorption

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

11:15

15:30

Talk: Atomizing the "spiral structure" of the Milky Way Galaxy

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

15:55

mar. 15 juillet

10:00

Talk: Strong turbulence and magnetic coherent structures in galaxies**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Evangelia Ntormousi

10:25

10:25

Talk: My White Whale: A Galactic-scale Parker Spiral?**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Jo-Anne Brown

10:50

10:50

Talk: My White Whale: A Galactic-scale Parker Spiral?**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Neco Kriel

11:15

11:15

Talk: MilkyWay3D: A Data-Rich Online Environment for Exploring Our Galactic Neighborhood**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Alyssa Goodman

11:40

14:00

Talk: GASKAP-HI Gaussian Decomposition Working group**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Frances Buckland-Willis

14:25

mer. 16 juillet

10:00

Talk: The Cold Gas of the Magellanic Cloud**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Frances Buckland-Willis

10:25

10:25

Talk: HI Absorption with GASKAP-HI**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Van Hiep Nguyen

10:50

10:50

Talk: Probabilistic Machine Learning Techniques for Mapping Neutral Hydrogen Gas Phases**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Eric Muller

11:15

11:15

Talk: An Aperture Synthesis Mosaic of the Small Magellanic Cloud with ASKAP - A non-linear optimization approach to joint deconvolution**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Antoine Marchal

11:40

jeu. 17 juillet

10:00

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Talk: Exploring Protostellar Jets in Star Cluster Formation with Torch

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

Talk: 3D reconstruction of the interstellar magnetic field orientation

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

Talk: Galactic magnetic field tomography in the spiral arms using optical and near-infrared starlight polarization

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:**
Yenifer Angarita Arenas

Talk: Reconstructing the kinetic energy and momentum densities in the nearby interstellar medium (and Galactic scale numerical simulations)

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Juan Diego Soler

ven. 18 juillet

10:00

Talk: Multiscale Models of Star Cluster Formation and Early Dynamics**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Mordecai-Mark Mac Low

10:25

10:25

Talk: Environmental Quenching through the lens of Small-scale ISM Physics**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Jiayi Sun

10:50

10:50

Talk: Hot CGM: the hidden treasure trove of galaxies**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Sanskriti Das

11:15

lun. 21 juillet

10:00

Talk: Zooming-in on the turbulence cascade, from galactic scales to prestellar cores

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

10:25

10:25

Talk: Revealing a nearby giant gas structure

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

10:50

10:50

Talk: The Closest Dark Molecular Cloud to the Solar System Revealed via H2 Fluorescence

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

11:15

11:15

Talk: ISRF-3D: A Code Suite for Three-dimensional Interstellar Radiation Field Modeling Using HEALPix Voxels

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

11:40

mar. 22 juillet

10:00

Talk: What is the contribution of gravitational infall on the mass assembly of star-forming clouds? A case study in a numerical simulation of the ISM**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Noé Brucy

10:25

10:25

Talk: LMC: A Case Study to Uncover its Magnetic Fields**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Hilay Shah

10:50

10:50

Talk: Synthetic Faraday sky observed within a Local Bubble-like cavity**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Efrem Maconi

11:15

11:15

Talk: A 3D dust polarization map of the solar neighbourhood**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:**
Sebastian Hutschenreuter

11:40

mer. 23 juillet

10:00

Talk: Diffuse filamentary emission from the Polarisation Sky Survey of the Universe's Magnetism (POSSUM)**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Jennifer West

10:25

10:25

Talk: Correlation between diffuse gas phases and Faraday tomographic data : a numerical point of view**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Jack Berat

10:50

10:50

Talk: A mass invariant in a compressible turbulent medium**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Pierre Dumond

11:15

11:15

Talk: Mapping the ISM at Parsec-Scales with Dust Extinction in the Magellanic Clouds**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay | **Responsable de session:** Christina Lindberg

11:40

jeu. 24 juillet

10:00

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Talk: The first detection of cosmic-ray excited H₂ in interstellar space

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

Talk: Cold Neutral Medium of Local Starburst IC10 As Revealed By Neutral Hydrogen Absorption

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

Talk: GMIMS update

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

Talk: Detecting Molecular Hydrogen (H₂) Emission at Cosmic Dawn

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

ven. 25 juillet

10:00

10:25

10:25

10:50

Talk: Diffuse Interstellar Bands and the interstellar reddening law

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

Talk: The dust extinction curve: beyond R(V)

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