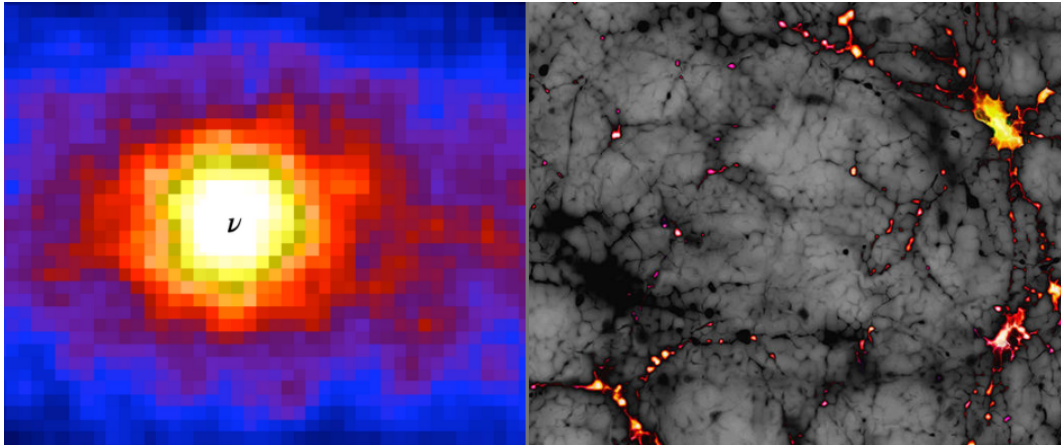


Session Program

May 5 - 23, 2025



Dark Matter and Neutrinos

Workshop talks

Institut Henri Poincaré
Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

Mon, May 12

9:30 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

9:30 - 10:00 AM **What is the future of neutrino astronomy ?**

Speaker

John Beacom

10:00 - 10:30 AM **Neutrinos in the Cosmos: Triumphs, Tensions, and New Physics**

Speaker

Kevork Abazajian

10:30 AM

11:00 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

11:00 - 11:30 AM **Diffuse Supernova Neutrino Background Search at SK-Gd**

Speaker

Andrew Santos

11:30 AM

2:00 PM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

2:00 - 2:30 PM

Shimmering darkness: Mapping the distribution of supernova-neutrino-boosted dark matter across the sky

Speaker

Yen-Hsun Lin

2:30 - 2:45 PM **Cosmological Neutrino Background**

Speaker

Michiru Uwabo-Niibo

2:45 - 3:00 PM

Search for wavelike dark matter with superconducting qubits and quantum circuit

Speaker

Thanaporn Sichanugrist

3:00 PM

Tue, May 13

9:30 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

9:30 - 10:00 AM

Neutrino Flavor Transformation in Dense Environments and the Implication for Observable Signatures

Speaker

Gail McLaughlin

10:00 - 10:30 AM

Neutrinos and Dark Matter in Neutron Star Mergers

Speaker

David Radice

10:30 AM

11:00 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

11:00 - 11:30 AM

Superradiant interactions of cosmic noise

Speaker

Asimina Arvanitaki

11:30 AM

2:00 PM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

2:00 - 2:15 PM

Super-Kamiokande Strongly Constrains Leptophilic Dark Matter Capture in the Sun

Speaker

Thong Nguyen

2:15 - 2:45 PM

Detection of Neutrino Directionality

Speaker

Kate Scholberg

2:45 PM

Wed, May 14

9:30 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

9:30 - 10:00 AM

Entanglement of astrophysical neutrinos

Speaker

Baha Balantekin

10:00 - 10:30 AM

Neutrino signal from long-term simulations of core-collapse supernova explosions

Speaker

Tobias Fischer

10:30 AM

11:00 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

11:00 - 11:30 AM

Conditions for Instability in Collective Neutrino Oscillations

Speaker

Basudeb Dasgupta

11:30 AM - 12:00 PM

Effect of neutrino flavor conversions in core-collapse supernova simulations

Speaker

Jakob Ehring

12:00 PM

2:00 PM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

2:00 - 2:30 PM

Some recent developments of fast neutrino flavor conversions

Speaker

Zewei Xiong

2:30 - 2:45 PM

Neutrino non-radiative decay with supernova neutrinos

Speaker

Pilar Iváñez Ballesteros

2:45 - 3:00 PM

QKEs for coherently mixing neutrinos

Speaker

Harri Parkkinen

3:00 PM

Thu, May 15

9:30 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

9:30 - 10:00 AM

Sub-GeV Dark Matter Direct Detection with Neutrino Observatories

Speaker

Rebecca Leane

10:00 - 10:30 AM

Primordial black holes as dark matter

Speaker

Guillermo Ballesteros

10:30 AM

11:00 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

11:00 - 11:30 AM

Potential neutrino signals from PBHs

Speaker

Sergio Palomares-Ruiz

11:30 AM

2:00 PM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

2:00 - 2:30 PM

Neutrino portals to sub-GeV dark matter: some new additions

Speaker

Avirup Ghosh

2:30 - 3:00 PM

Probing earth-bound dark matter with nuclear reactors

Speaker

Yohei Ema

3:00 PM

Fri, May 16

9:30 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

9:30 - 10:00 AM **Cogenesis by Majoron**

Speaker

EUNG JIN CHUN

10:00 - 10:30 AM

Testing the dark origin of neutrino masses with oscillations experiments

Speaker

Hong-Yi Zhang

10:30 AM

11:00 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

11:00 - 11:30 AM **Collider feasibility of a dynamic scotogenic model**

Speaker

Dr Maud SARAZIN

11:30 AM - 12:00 PM **Dark matter at the high mass frontier**

Speaker

Joseph Bramante

12:00 PM

Mon, May 19

9:30 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

9:30 – 10:00 AM **Axion Dark Matter detection**

Speaker
Raffaele DAgnolo

10:00 – 10:30 AM **Hunting Dark Matter with Quantum Magnetometers**

Speaker
Itay Bloch

10:30 AM

11:00 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

11:00 – 11:30 AM

Detecting Rare Species of Dark Matter with Large-Volume Neutrino Detectors

Speaker
Anupam Ray

11:30 AM – 12:00 PM **Minimal sterile neutrino dark matter**

Speaker
Torsten Bringmann

12:00 PM

2:00 PM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

2:00 – 2:30 PM **Bubbletrons and Dark Matter**

Speaker
Iason Baldes

2:30 – 3:00 PM **Dilaton phase transitions**

Speaker
David Marsh

3:00 PM

Tue, May 20

9:30 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

9:30 – 10:00 AM

Directional solar neutrino measurement with the CYGNO/INITIUM experiment

Speaker

Elisabetta BARACCHINI

10:00 – 10:30 AM

Halo-independent constraints on dark matter-nucleon effective interactions using neutrino telescope and direct detection

Speaker

Arpan Kar

10:30 AM

11:00 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

11:00 – 11:30 AM

Advanced reconstruction capabilities of Xenon TPC for neutrinoless double-beta decay searches

Speaker

Federica Pompa

11:30 AM – 12:00 PM

Photo- and hadron-dissociation constraints on relics decaying into neutrinos

Speaker

Jonas Frerick

12:00 PM

2:00 PM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

2:00 – 2:30 PM

Can neutrinos illuminate the dark matter?

Speaker

Arunansu Sil

2:30 – 2:45 PM

Antimatter signatures from Primordial Black Holes

Speaker

Agnese Tolino

2:45 – 3:00 PM

Global fits of sub-GeV dark matter models

Speaker

Sri Sankari alias Sowmiya Balan

3:00 PM

3:30 PM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

3:30 - 4:00 PM

Putting out the cosmic fireworks: Impact of heavy axions on short gamma-ray bursts

Speaker

Oindrila Ghosh

4:00 PM

Wed, May 21

9:30 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

9:30 – 10:00 AM **GRAND : status and perspectives**

Speaker

Kumiko Kotera

10:00 – 10:30 AM **Indirect dark matter searches with neutrinos in KM3NeT**

Speaker

Sara Rebecca Gozzini

10:30 AM

11:00 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

11:00 – 11:30 AM **Neutrinos from blazars**

Speaker

Matteo Cerruti

11:30 – 11:45 AM **Neutrinos from Dark Matter scatterings around blazars**

Speaker

Jacopo Nava

11:45 AM – 12:00 PM **GWs from DM-capture-induced low-mass BH binaries**

Speaker

Sulagna Bhattacharya

12:00 PM

2:00 PM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

2:00 – 2:30 PM **Dark Matter catalysed baryon destruction**

Speaker

Robert McGehee

2:30 – 3:00 PM **Neutrino signals from DM annihilations in celestial objects**

Speaker

Tim Linden

3:00 PM

Thu, May 22

9:30 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

9:30 – 10:00 AM **Dynamic neutrino masses - what, how and where?**

Speaker

Manibrata Sen

10:00 – 10:30 AM **Thermal effects in neutrino DM production**

Speaker

Salvador Rosauero-Alcaraz

10:30 AM

11:00 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

11:00 – 11:30 AM **How new physics affects cosmic neutrinos around their decoupling**

Speaker

Maksym Ovchynnikov

11:30 AM – 12:00 PM **Catching neutrinos by the dipole**

Speaker

Michele Frigerio

12:00 PM

2:00 PM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

2:00 – 2:30 PM **Early Dark Energy from Thermo-Coupled Neutrinos**

Speaker

Anubhav Mathur

2:30 – 3:00 PM **Sterile neutrino dark matter and neutrino self-interactions**

Speaker

Walter Tangarife

3:00 PM

Fri, May 23

9:30 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

9:30 - 10:00 AM

Insights on the GeV Galactic Center Excess from the highest energies

Speaker

Silvia Manconi

10:00 - 10:30 AM

From Gamma Rays to Multimessenger Dark Matter Searches: Establishing Fermi-LAT's Legacy

Speaker

Milena Crnogorčević

10:30 AM

11:00 AM

Workshop talks

Session | **Location:** Institut Henri Poincaré, Bâtiment Perrin, 11, Rue Pierre et Marie Curie 75005 Paris

11:00 - 11:30 AM

Flavor effects on captures of sub-eV and keV dark matter neutrinos

Speaker

Zhi-zhong Xing

11:30 AM - 12:00 PM

Neutrino Oscillation Tomography of the Earth

Speaker

Serguey Petcov

12:00 - 12:30 PM

Primordial high energy neutrinos

Speaker

Thomas HAMBYE

12:30 PM