Pregramme des sessions

18–20 nov. 2026

Journées de l'AT-PEM 2026 - Défis numériques en astrophysique des hautes énergies

Invited talks

Sorbonne Université, campus Jussieu, Amphithéâtre Charpak
4 Place Jussieu, 75005 Paris, France

mer. 18 novembre

14:45

Invited talks: Transport and diffuse backgrounds

Session | **Site:** Sorbonne Université, campus Jussieu, Amphithéâtre Charpak, 4 Place Jussieu, 75005 Paris, France

14:45 – 15:05 **Diffuse Galactic gamma-ray emission at very high energies, and TeV halos around pulsars**

Orateur
Gwenael GIACINTI

15:05 – 15:25 **Astrophysical gravitational-wave backgrounds**

Orateur
Irina Dvorkin

15:25 – 15:45 **Field line & particle transport in magnetic turbulence : synthetic vs MHD**

Orateur
Yoann GÉNOLINI

15:45

jeu. 19 novembre

09:45

Invited talks: Relativistic jets

Session | **Site:** Sorbonne Université, campus Jussieu, Amphithéâtre Charpak, 4 Place Jussieu, 75005 Paris, France

09:45 – 10:05 **The impact of pair production on Gamma Ray Burst prompt emission spectra**

Orateur
Mouad Gnaoui

10:05 – 10:25 **Multi-messenger modeling of binary neutron star mergers**

Orateur
Sofia Bisero

10:25 – 10:45
From numerical simulations to Bayesian inference: surrogate models for time-resolved blazar SEDs

Orateur
Damien BEGUE

10:45

15:15

Invited talks: Supernovae

Session | **Site:** Sorbonne Université, campus Jussieu, Amphithéâtre Charpak, 4 Place Jussieu, 75005 Paris, France

15:15 – 15:35 **Neutrino flavor instabilities: from theory to observables**

Orateur
Julien Froustey

15:35 – 15:55 **Cosmic-ray transport from large to small scales**

Orateur
Phan Vo Hong Minh

15:55 – 16:15 **Particle acceleration in novae**

Orateur
Vincent Tatischeff

16:15

ven. 20 novembre

09:45

Invited talks: Accreting black holes

Session | **Site:** Sorbonne Université, campus Jussieu, Amphithéâtre Charpak, 4 Place Jussieu, 75005 Paris, France

09:45 – 10:05 **The Growth of Supermassive Black Holes with Cosmological Hydrodynamical Simulations**

Orateur
Dr Yohan Dubois

10:05 – 10:25 **Black Hole Accretion: Simulating Electromagnetic Observables**

Orateur
Irene Urso

10:25 – 10:45 **Turbulence in extreme environments**

Orateur
Martin Lemoine

10:45

15:00

Invited talks: Magnetospheres

Session | **Site:** Sorbonne Université, campus Jussieu, Amphithéâtre Charpak, 4 Place Jussieu, 75005 Paris, France

15:00 – 15:20 **Population synthesis of pulsars and magnetars**

Orateur
Mattéo Sautron

15:20 – 15:40 **A kinetic plasma perspective on black hole magnetospheres**

Orateur
Enzo Figueiredo

15:40 – 16:00 **Fast radio bursts as precursor radio emission from monster shocks**

Orateur
Arno Vanthieghem

16:00