**Pregramme des sessions**

**18–20 nov. 2026**

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

## *Contributed talks*

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

# mer. 18 novembre

16:15

## Contributed talks: Transport and diffuse backgrounds

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

16:15 – 16:30 **Blowing PeVatrons: Wind Bubbles and Jets from Stellar-Mass Compact Objects**

**Orateur**
Enrico Peretti

16:30 – 16:45 **Millisecond pulsars in the Galactic bulge: from simulations to new discoveries**

**Orateur**
Emilie Parent

16:45 – 17:00 **Cosmic Ray Transport and Acceleration in Merging Galaxy Clusters**

**Orateur**
Rebecca Diesing

17:00

# jeu. 19 novembre

11:15

## Contributed talks: Relativistic jets

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

11:15 – 11:30 **From Photons to Neutrinos: Advancing Multi-Messenger Blazar Modeling with Gammapy**

**Orateur**
Lea Heckmann

11:30 – 11:45 **Fast Leptohadronic SED Modeling of Relativistic Jets with Neural Network Emulators**

**Orateur**
Georgios Vasilopoulos

11:45 – 12:00
**RECENT RESULTS ON THE PROMPT GRB EMISSION MODELLING: PROPERTIES OF THE X-RAY EMISSION**

**Orateur**
Zeljka Bosnjak

12:00

16:45

## Contributed talks: Supernovae

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

16:45 – 17:00 **Studying astrophysical double-shock structures with particle-in-cell simulations**

**Orateur**
Michelle Tsirou

17:00 – 17:15 **Cosmic-Ray Electron Flux from Dynamically Evolving Supernova Remnants**

**Orateur**
Lorenzo Stefanuto

17:15 – 17:30 **Laboratory investigation of laser-driven stochastic Fermi acceleration**

**Orateur**
Weipeng Yao

17:30

# ven. 20 novembre

11:15

## Contributed talks: Accreting black holes

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

11:15 – 11:30 **The dialectic of numerical simulations and accretion-ejection theory**

**Orateur**
Jonathan Ferreira

11:30 – 11:45 **DYPLO–MONK: Coupling Global Radiative Transfer with Accretion–Ejection Physics**

**Orateur**
Rafan Muhammad

11:45 – 12:00 **The Fig Code: A GPU Radiative Transfer Code for GRPIC Simulations and More**

**Orateur**
M. Élie Sévègnes

12:00

16:00

## Contributed talks: Magnetospheres

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

16:00 – 16:15
**Fast radio bursts from the non-linear evolution of low frequency plasma waves in the magnetosphere of magnetars.**

**Orateur**
Dominic Bernardi

16:15 – 16:30 **Modeling radiation-rich magnetar magnetospheres using Particle-in-Cell simulations**

**Orateur**
Adrien Soudais

16:30 – 16:45
**Influence of black hole spin and statistical properties of magnetospheric eruptions in GRPIC simulations**

**Orateur**
Maïa Villemin

16:45