

# 2026:

## a space PhDyssey



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PhD Day Organising  
Committee

### Space: the final frontier..

*Introduction*  
*Welcome & Overview of the day*

### Introduction

09:00  
09:10



Marius Brunet  
Marquis Landry  
Quentin Taupin

### They sent a probe up to the Petrova line, and this is what they found..

*The strange X-ray world seen by ECLAIRs*  
*Fusion of JWST data*  
*Do our space activities have a real impact on Earth's atmosphere?*

### Session I

09:20  
09:40  
10:00



Raphaël Maris  
Christine Kazantsev  
Anastasia Kilina

### In a galaxy, far far away..

*Empirical dust-heating radiation field for PHANGS galaxies and its impact on infrared dust properties*  
*Mass-radius measurements of a neutron star in an X-ray binary*  
*Origin of Ultraluminous X-ray sources in an interacting galaxy*

### Poster session

10:20

### Session II

11:00  
11:20  
11:40

### Lunch

12:00

### Coffee

13:30



Enyi Zhu  
Siméo Evelain  
Giacomo Permunion

### Whoever controls the dust, controls the universe.

*Tracing grain growth in the forming pre-stellar core L1506C*  
*Vortex simulations in internal regions of protoplanetary disks to explain VLT dust observations*  
*Aqueous alteration of chondrite-like material under asteroidal conditions: kinetic experiments and thermodynamic modeling*

### Session III

14:00  
14:20  
14:40

### Poster session

15:00



Anderson Gonnet  
Matisse Villate  
Marie Devinat

### There's something interfering with their compasses.. Session IV

*Extreme solar events impacting the magnetosphere of Mercury - from MESSENGER to BepiColumbo*  
*Probing for magnetic fields in the cores of red giants with asteroseismology*  
*What if... we put the Jovian magnetosphere in a bottle?*

15:40  
16:00  
16:20

### Break

16:40

### Round Table Discussion

17:00

### Afterwork & Games

18:00

## Poster session

- Quentin Taupin *Do our space activities have a real impact on Earth's atmosphere?*
- Coretin Rasser *The magnetic reconnection and scale-variability of alfvénicity in the solar wind*
- Ulysse Laffitau *Ionosphere total electron content (TEC) using different receivers*
- Tristan Vergé *Radial evolution of alpha particle abundance in switchback patches*
- Matisse Villate *Probing for magnetic fields in the cores of red giants with asteroseismology*
- Marie Devinat *IRAP greenhouse gas inventory*
- Antoine Espagnet *Providing physical conditions for chemical models and synthetic observations*
- Antoine Espagnet *Modeling the chemical impacts of luminosity outbursts in protostellar envelopes*
- Quentin Moysan *Low-mass cluster scaling relation from the X-CLASS survey*

