

IRAP's PhD Day 2022

OMP Belin site - Coriolis & Lyot rooms

09h00 – Reception and Welcoming speech



High Energy Universe – PART I

9h20	Xan Astiasarain	New look at the Cygnus cocoon, a potential Galactic cosmic-ray factory
9h35	Miguel Llamas Lanza	Detection of Gamma-Ray Bursts (GRBs) at high redshift by SVOM/ECLAIRs
9h50	Benjamin Arcier	Are binary black hole mergers and long GRBs drawn from the same population?
10h05	Alix Nouvel de la Flèche	Characterisation of the infrared camera CAGIRE

10h20 – Poster session !! – 11h20

Galaxy and Cosmology



Study of the dynamic assembly of the great halos of matter in the universe	Simon Dupourqué	11h20
How does the environment affect galaxies dynamics?	Wilfried Mercier	11h35
Are fundamental constants really constant and why should you care?	Léo Vacher	11h50

12h05 – LUNCH – 13h35



High Energy Universe – PART II

13h35	Erwan Quintin	A study of the transient sky
13h50	Hugo Tranin	Searching for treasures in X-ray catalogues with machine learning, citizen science and virtual observatory
14h05	Florent Castellani	Study of the instrumental and scientific performances of Athena/X-IFU

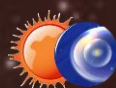
14h20 – Coffee break !! – 14h40

Earth and Planets



Ancient Mars Alteration	Matteo Loche	14h40
Development of a detection chain for a low energy threshold particle detector for the study of Neptune and Uranus plasma environments	Erwan Berthome	14h55
Characterising exoplanetary atmospheres with SPIRou: the curious case of WASP-76b	Thea Hood	15h10

15h25 – Poster session !! – 16h20



Sun and stars

16h20	Naïs Fargette	Magnetic switchbacks in the solar wind
16h35	Paul Cristofari	Modelling nIR SPIRou spectra of M dwarfs, status and challenges
16h50	Manon Jarry	CME shock wave parameters associated with soft X-ray flares

17h05 – Voting, awards and closing speech

17h25 – Round table with previous PhD students and Post-docs

18h20 – Extra activities