

Pregramme des sessions

2-13 juin 2025

COLOURS

COLOURS Workshop

Institut Pascal
Rue André Rivière 91400 Orsay France

mar. 10 juin

09:30

COLOURS Workshop: Opening

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Samuel Farrens

09:30 – 09:40 **Welcome**

Orateur

Samuel Farrens

09:40

09:40

COLOURS Workshop: Session I

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Samuel Farrens

09:40 – 10:20

Keynote - Overview of the ESA Euclid mission in the context of ESA Science today

Orateur

Valeria Pettorino

10:20 – 10:40

Suppressing the Growth of Structure with Modified Gravity Theories

Orateur

Linus Thummel

10:40 – 11:00

Investigating the Evolution of the Universe Using the observational $H(z)$ data (OHD): Constraining Cosmological Parameters, Dark Energy, and the Hubble Constant

Orateur

Jing Niu

11:00

11:30

COLOURS Workshop: Session II

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Ottavia Truttermo

11:30 – 11:50

Detecting Relativistic Doppler by Multi-tracing a Single Galaxy Population

Orateur

Federico Montano

11:50 – 12:10

Accuracy of HOD models for stage IV surveys

Orateur

Romain Paviot

12:10 – 12:30

Probing Inflation with PICO: Simulations and Delensing for CMB B-Modes

Orateur

Julien TANG

12:30 – 12:50

Autoencoders for AGN identification in the DESI Y3 survey

12:50

Orateur

Dhavala Sai Srinivas

14:50

COLOURS Workshop: Session III**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Katayoon Ghaemiardakani

14:50 - 15:30

Keynote - Latest cosmological results from DESI**Orateur**

Pauline Zarrouk

15:30 - 15:50

Relativistic effects in galaxy clustering with DESI**Orateur**

Jade Piat

15:50 - 16:10

Densitysplit for the DESI BGS**Orateur**

Simon Bouchard

16:10

16:40

COLOURS Workshop: Session IV**Session** | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Vineshree Pillay

16:40 - 17:00

Model-agnostic assessment of dark energy after DESI DR1 BAO**Orateur**

BIKASH RANJAN DINDA

17:00 - 17:20

Spectral Inpainting with Diffusion Models: A Novel Approach for Continuum Removal in Euclid Data**Orateur**

Domingos Savio Pinheiro do Nascimento Junior

18:00

mer. 11 juin

09:40

COLOURS Workshop: Session V

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Emma Ayçoberry

09:40 – 10:20

Keynote - Reconstructing the Universe's history with projected large-scale structure data

Orateur

David Alonso

10:20 – 10:40

The Fink broker: a personalized window to the transient sky through LSST

Orateur

Emille Ishida

10:40 – 11:00

Latest perspectives on weighing neutrinos with 21cm intensity mapping at the SKAO

Orateur

Gabriele Autieri

11:00

11:30

COLOURS Workshop: Session VI

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Julien Tang

11:30 – 11:50

Baryon-free S8 tension with stage IV cosmic shear surveys

Orateur

Ottavia Truttero

11:50 – 12:10

Growth of structure using cross-correlation of CMB lensing and cosmic shear

Orateur

Shabbir Shaikh

12:10 – 12:30

Probing the Cosmological Principle with weak lensing shear

Orateur

James Adam

12:30 – 12:50

Shear calibration for UNIONS

Orateur

Fabian Hervas Peters

12:50

14:50

COLOURS Workshop: Session VII

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Fabian Hervas Peters

14:50 – 15:30

Keynote - Weak lensing and 3x2pt with Euclid

	Orateur Alex Hall
	15:30 – 15:50 EIFNet: Ellipticity Finding Network
	Orateur Lucy Reynolds
	15:50 – 16:10 Staying focused: In-flight monitoring of the Euclid space telescope
	Orateur Dennis Neumann
16:10	
16:40	COLOURS Workshop: Session VIII Session Site: Institut Pascal, Rue André Rivière 91400 Orsay France Responsable de session: Romain Paviot
	16:40 – 17:00 Impact of Weak Lensing Mass Mapping Algorithms on Cosmology Inference
	Orateur Andreas Tersenov
	17:00 – 17:20 Higher-Order Weak Lensing Statistics in Euclid: insights from pre-launch projects and DR1 plans
	Orateur Filippo Bouchè
	17:20 – 17:40 Weak lensing higher-order statistics in $f(R)$ gravity
	Orateur Alessandro Vadalà
18:00	

jeu. 12 juin

09:40

COLOURS Workshop: Session IX

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Sacha Guerrini

09:40 - 10:20

Keynote - Cosmology from Radio Continuum Surveys

Orateur

Catherine Hale

10:20 - 10:40

Theoretical Predictions for Wavelet $\ell 1$ -Norm in Weak Lensing

Orateur

Vilasini Tinnaneri Sreekanth

10:40 - 11:00

Primordial non-Gaussianity - the effects of relativistic and wide-angle corrections to the power spectrum

Orateur

Sécloka Lazare Guedezounme

11:00

11:30

COLOURS Workshop: Session X

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Ezequiel Centofanti

11:30 - 12:10

Keynote - Mapping Neutral Hydrogen: opportunities and challenges on the road to the SKA Observatory

Orateur

Marta Spinelli

12:10 - 12:30

Detection of the power spectrum turnover with SKA & some galaxy surveys

Orateur

Yolanda Dube

12:30 - 12:50

Probing Neutrino Mass using the Cosmic Web

Orateur

Leonor Simões

12:50

14:50

COLOURS Workshop: Session XI

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Andreas Tersenov

14:50 - 15:30

Keynote - SPT-3G

Orateur

Silvia Galli

15:30 - 15:50

The impact of dark energy on the thermal Sunyaev-Zel'dovich effect

	Orateur Emma Ayçoberry
16:10	15:50 - 16:10 Follow up on COLOURS School communication exercise Orateur Samuel Farrens
17:00	COLOURS Workshop: Session XII Session Site: Institut Pascal, Rue André Rivière 91400 Orsay France Responsable de session: Natalia Porqueres
17:40	17:00 - 17:40 Pannel discussion with Keynote speakers - What did we learn in Stage III? What do we hope to learn in Stage IV? What do we expect for the future?

ven. 13 juin

09:40

COLOURS Workshop: Session XIII

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Vilasini Tinnaneri Sreekanth

09:40 – 10:20 **Keynote - DES**

Orateur

Daniel Gruen

10:20 – 10:40

Dark Energy Survey Year 6: Magnification modeling and impact on galaxy clustering and weak lensing cosmology

Orateur

Elisa Legnani

10:40 – 11:00 **The future of cosmological inference**

Orateur

Alessio Spurio Mancini

11:00

11:20

COLOURS Workshop: Session XIV

Session | **Site:** Institut Pascal, Rue André Rivière 91400 Orsay France | **Responsable de session:** Leonor Simões

11:30 – 11:50 **Forward modelling UNIONS survey for Implicit Likelihood Inference**

Orateur

Sacha Guerrini

11:50 – 12:10

Machine learning in cosmology: Using emulators to accelerate inference for Stage-IV surveys

Orateur

Ivan Sladoljev

12:10 – 12:30

Forward-modelling Stage IV galaxy surveys for precise cosmological measurements

Orateur

Luca Tortorelli

12:30 – 12:40 **Closing**

Orateur

Samuel Farrens

12:50