

Yannick COPIN

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Born March 25th, 1972
French citizen
Married, two children

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Professional positions

- 2001–** ASSOCIATE PROFESSOR WITH HABILITATION (ASTRONOMY & ASTROPHYSICS).
Institut de Physique des Deux Infinis de Lyon – Université Lyon 1 (*Observational Cosmology Euclid/LSST* team)
- 2009** INVITED RESEARCH ASSOCIATE.
Lawrence Berkeley National Laboratory, USA (*Supernova Cosmology* team)
▷ *AAS Chrétien International Research Grant*
- 2000–2001** NOVA & MARIE CURIE POSTDOCTORAL FELLOW.
Leiden Observatory – Netherlands (*Galaxy dynamics* team)
- 1997–2000** ASSISTANT PROFESSOR (ASTRONOMY & ASTROPHYSICS).
École normale supérieure de Lyon (ENS Lyon) – Université Lyon 1
- 1992–1996** ÉLÈVE NORMALIEN (CIVIL SERVANT STUDENT).
École normale supérieure de Lyon

Education

- 2013/06/26** HABILITATION UNIVERSITÉ LYON 1.
▷ [Integral field spectro-photometry in the Nearby Supernova Factory](#)
- 2000/05/15** PH. D. OF PHYSICS (ASTROPHYSICS, ENS LYON).
▷ [Dynamics of early-type galaxies: 3D-observations and modeling](#)
- 1994–1995** M. SC. OF ASTROPHYSICS AND DIFFUSE PLASMAS.
ENS Lyon – Universités Lyon 1/Grenoble 1

Research activities

Euclid: observational cosmology ESA space mission

▷ Consortium co-lead of the slitless spectroscopy data-reduction processing function (SIR). ▷ Member of the spectroscopy data-analysis team (spectral features). ▷ Local scientific lead and Science Ground Segment correspondent.

LSST-DESC: observational cosmology ESA space mission

▷ Data reduction and analysis from the Auxiliary Telescope slitless spectrograph. ▷ Atmospheric transmission modeling.

The Nearby Supernova Factory: integral-field spectro-photometry of nearby thermonuclear supernovæ

▷ *Data Scientist*, responsible for spectro-photometric data reduction (integral field spectrography, 3D PSF photometry, flux calibration)

Publications

Bibliometry: 78 cited publications, 15 with more than 100 citations (*h*-index: 33).

Selected bibliography

- Outini & Copin 2019; *Forward modeling of galaxy kinematics in slitless spectroscopy*, *A&A*, **633**, 43
- Rigault et al. 2015; *Confirmation of a Star Formation Bias in Type Ia Supernova Distances and its Effect on the Measurement of the Hubble Constant*, *A&A*, **802**, 20
- Buton, Copin et al. 2013; *Atmospheric extinction properties above Mauna Kea from the Nearby Supernova Factory spectro-photometric data set*, *A&A*, **549**, 8

- Cappellari & Copin 2003; *Adaptive spatial binning of integral-field spectroscopic data using Voronoi tessellations*, *MNRAS*, **342**, 345, 622 citations

Teaching activities

- 2001–** Université Lyon 1, ENS Lyon. ASSOCIATE PROFESSOR.
▷ *General physics, astrophysics and cosmology, computer science (python)*
- 1997–2000** ENS Lyon, Université Lyon 1. ASSISTANT PROFESSOR.

Ph.D. advisorship

- 2019–2022** N. NICOLAS (CO-ADV.: M. RIGAULT).
▷ *Intrinsic variabilities of type Ia supernovæ and their consequences on cosmological parameters*
- 2018–2021** M. BRIDAY (CO-ADV.: M. RIGAULT).
▷ *Host galaxy local environment impact on type Ia supernovæ*
- 2016–2019** M. OUTINI.
▷ *Measurement of galaxy internal kinematics in slitless spectroscopy*
- 2010–2013** M. RIGAULT.
▷ *Analyses of the properties of the local host environments of Type Ia supernovae from the Nearby Supernova Factory*
- 2006–2009** C. BUTON.
▷ *Spectro-photometric calibration of the SuperNova Integral Field Spectrograph in the Nearby Supernova Factory*