LPENS

LABORATOIRE DE PHYSIQUE
DE L'ÉCOLE NORMALE SUPÉRIEURE

PhD theses defended since January 1st 2019

213 PhD theses defended since the creation of the lab

28 defended in 2019
24 defended in 2020
25 defended in 2021
29 defended in 2022
43 defended in 2023
35 defended in 2024
29 defended in 2025

Team *Nano-Optics*

2019

- **CLAUDE Théo**
  Monitoring the telecom band emission of individual carbon nanotubes coupled to a fibered microcavity.
  PhD supervisor : Christophe Voisin
  Defended on November 18, 2019
  `https://theses.hal.science/tel-03876836v1`

- **NICOLAS Louis**
  High resolution spectroscopy of diamond color center ensembles for quantum optics experiments
  PhD supervisor : Gabriel Hétet
  Defended on November 19, 2019
  `https://tel.archives-ouvertes.fr/tel-03185648`

- **DELORD-CARNAUT Tom**
  Spin-mechanics with micro-particles levitating in a Paul trap
  PhD supervisor : Gabriel Hétet
  Defended on November 26, 2019
  `https://tel.archives-ouvertes.fr/tel-03217243v2`

- **HABRANT-CLAUDE Théo**
  Contrôle de l'émission dans la bande télécom O de nanotubes de carbone individuels couplés à une micro-cavité fibrée
  PhD supervisor : Christophe Voisin
  Defended on November 18, 2019
  `https://theses.hal.science/tel-03876836`

2021

- **LE GOFF Romaric**
  GHz infrared photodetectors based on van der Waals heterostructures
  PhD supervisor : Enmmanuel Baudin, Bernard Plaçais
  Defended on June 21, 2021

2022

- **PELLET-MARY Clément**
  Cross-relaxation in dense ensembles of NV centers and application to magnetometry
  PhD supervisor : Gabriel Hétet
  Defended on December 7, 2022
  `https://theses.hal.science/tel-04597582`

- **BOREL Antoine**
  Contrôle de l'émission optique de centres colorés individuels greffés sur des nanotubes de

carbone par une micro-cavité fibrée
PhD supervisor : Christophe Voisin
Defended on October 13, 2022
`https://theses.hal.science/tel-04538130v1`

2023

- **PERDRIAT Maxime**
  Angular Control of Levitated Magnetic Particles for Studies of Gyromagnetism at the Micro-Scale
  PhD supervisor : Gabriel Hetet
  Defended on April 14, 2023
  `https://theses.hal.science/tel-04478554v2`
- **AMARA Mohamed-Raouf**
  Optical spectroscopy of single perovskite nanocrystals for quantum photonics
  PhD supervisor : Carole Diederichs
  Defended on January 6, 2023
  `https://theses.hal.science/tel-04056841v1`

2024

- **SAID Zakaria**
  CQED effects with individual perovskite nanocrystals
  PhD supervisor : Carole Diederichs
  Defended on December 19, 2024
  `https://theses.hal.science/tel-05149262v1`
- **THARRAULT Marin**
  Study of high-frequency photodetection mechanisms in 2D materials heterostructures
  PhD supervisor : Emmanuel Baudin
  Defended on May 29, 2024
  `https://theses.hal.science/tel-04954490v1`

2025

- **RAPISARDA Federico**
  Cavity-enhanced extinction spectroscopy of single organic color centers grafted on carbon nanotubes at cryogenic temperature
  PhD supervisor : Christophe Voisin
  Defended on December 12, 2025

- **PHELIX Pierre-Louis**
  Hétérostructures de Van der Waals de dimensions mixtes et greffons covalents : vers un contrôle de la luminescence de nanoémetteurs carbonés
  PhD supervisor : Christophe Voisin
  Defended on May 15, 2025

Team *Mesoscopic Physics*

2019

- **MENSAH Kokoura**
  Nucleic acid testing with graphene transistor arrays
  PhD supervisor : Ulrich Bockelmann, Bernard Plaçais
  Defended on September 13, 2019
  `https://pastel.archives-ouvertes.fr/tel-02631689`

- **MONTANARO Alberto**
  Study of graphene-based high frequency optoelectronic devices for optoelectronic mixing
  PhD supervisor : Bernard Plaçais
  Defended on April 1, 2019
  `https://tel.archives-ouvertes.fr/tel-02614339`

- **GRAEF Holger**
  Dirac fermion optics and plasmonics in graphene microwave devices
  PhD supervisor : Bernard Plaçais
  Defended on September 19, 2019
  `https://tel.archives-ouvertes.fr/tel-02697984`

2021

- **LE GOFF Romaric**
  GHz infrared photodetectors based on van der Waals heterostructures
  PhD supervisor : Enmmanuel Baudin, Bernard Plaçais
  Defended on June 21, 2021
  `https://theses.hal.science/tel-02697984`

2022

- **GOURMELON Alexandre**
  Radiofrequency studies of topological edge states on HgTe (Mercure Telluride) quantum wells
  PhD supervisor : Bernard Plaçais
  Defended on September 19, 2022

- **BARTOLOMEI Hugo**
  Collision Experiments in Quantum Hall Conductors
  PhD supervisor : Gwendal Fève
  Defended on March 29, 2022
  `https://theses.hal.science/tel-03828422`

2023

- **SCHMITT Aurélien**
  Relativistic electrons under extreme electric fields : transport and optoelectronic signatures

in graphene
PhD supervisor : Emmanuel Baudin, Bernard Plaçais
Defended on September 29, 2023
`https://theses.hal.science/tel-05381181v1`

2024

- **SCHRAEDER Christian**
  Biosensing with Graphene Transistor Arrays
  PhD supervisor : Ulrich Bockelmann, Bernard Plaçais
  Defended on April 26, 2024

- **RUELLE Mélanie**
  Time-domain braiding of anyons in quantum Hall conductors
  PhD supervisor : Gwendal Fève, Jean-Marc Berroir
  Defended on December 10, 2024
  `https://theses.hal.science/tel-04948911v1`

2025

- **FRIGERIO Elric**
  Microwave study of the dynamics of edge states in quantum Hall and quantum spin Hall systems
  PhD supervisor : Gerbold Ménard
  Defended on December 16, 2025

Team *Hybrid Quantum Circuits*

2019

- **CONTAMIN Laurianne**
  Revealing synthetic spin textures with transport and microwave measurements
  PhD supervisor : Takis Kontos
  Defended on October 2, 2019
  `https://tel.archives-ouvertes.fr/tel-02535710v1`

2024

- **NEUKELMANCE Benoit**
  Spin-photon interface and quantum gates for spins in carbon nanotube
  PhD supervisor : Takis Kontos
  Defended on March 15, 2024
  `https://theses.hal.science/tel-04719374v1`

- **THERY Arnaud**
  Hybrid magnonics for axion dark matter detection
  PhD supervisor : Takis Kontos
  Defended on November 6, 2024

2025

- **CRAQUELIN Jules**
  Jackiw-Rebbi fractional fermions in a synthetic topological chain
  PhD supervisor : Matthieu Delbecq
  Defended on September 29, 2025

- **JARJAT Lucas**
  Dynamical charge-photon coupling for probing electronic states in mesoscopic quantum electrodynamics
  PhD supervisor : Matthieu Delbecq
  Defended on April 14, 2025

Team *Quantic*

2020

- **LESCANNE Raphael**
  Engineering multi-photon dissipation in superconducting circuits for quantum error correction
  PhD supervisor : Zaki Leghtas
  Defended on February 20, 2020
  `https://tel.archives-ouvertes.fr/tel-03164025`

2023

- **BERDOU Camille**
  Macroscopic bit-flip times in a two-photon dissipative oscillator
  PhD supervisor : Zaki Leghtas
  Defended on March 14, 2023
  `https://theses.hal.science/tel-04235044v1`
- **SIEGELE Christian**
  Robust suppression of back-propagating noise in GKP error syndrome measurements
  PhD supervisor : Mazyar Mirrahimi, Philippe Camapgne-Ibarcq
  Defended on February 20, 2023
  `https://theses.hal.science/tel-04385083v1`
- **VILLIERS Marius**
  Accroissement dynamique du couplage entre un bit quantique et des photons comprimés
  PhD supervisor : Zaki Leghtas
  Defended on May 15, 2023

2024

- **BORGOGNONI Alvise**
  Mediating high-order photon-photon interactions by Cooper-pair pairing
  PhD supervisor : Zaki Leghtas
  Defended on May 27, 2024
  `https://theses.hal.science/tel-04901986v1`
- **PRAQUIN Matthieu**
  Mélange de signaux contra-propageants dans un dispositif Josephson à ondes progressives
  PhD supervisor : Philippe Campagne-Ibarcq
  Defended on November 19, 2024
  `https://theses.hal.science/tel-05354033v1`
- **REGLADE Ulysse**
  Quantum control of a cat-qubit with macroscopic bit-flip times
  PhD supervisor : Zaki Leghtas
  Defended on June 17, 2024
  `https://theses.hal.science/tel-05029001v1`

- **VANSELOW Aron**
  High-impedance superconducting circuits for the dissipative stabilization of four-component Schrödinger cat states
  PhD supervisor : Philippe Campagne-Ibarcq
  Defended on July 25, 2024
  `https://theses.hal.science/tel-05008632v1`

- **LE REGENT François-Marie**
  Méthodes analytiques et numériques pour l'optimisation des architectures de calcul quantique basées sur des qubits bosoniques stabilisés
  PhD supervisor : Mazyar Mirrahimi
  Defended on March 14, 2024
  `https://theses.hal.science/tel-04891145v2`

2025

- **BOCQUET Adrien**
  Non-damaging readout scheme for cat-qubit based quantum processors
  PhD supervisor : Zaki Leghtas
  Defended on September 23, 2025

Team *QUAD : Quantum Physics and Devices*

2019

- **ASGHARI Zahra**
  High requency optoelectronic devices in the mid infrared wavelength region
  PhD supervisor : Carlo Sirtori
  Defended on March 22, 2019
  `http://theses.md.univ-paris-diderot.fr/ASGHARI_ZahraSadat_va2.pdf`

- **COSME Sébastien**
  Superradiant infrared emitters
  PhD supervisor : Angela Vasanelli
  Defended on February 12, 2019
  `http://theses.md.univ-paris-diderot.fr/COSME_Sebastien_2_complete.pdf`

- **CALABRESE Allegra**
  Optomechanical terahertz meta-atoms
  PhD supervisor : Angela Vasanelli
  Defended on December 18, 2019

2021

- **BIGIOLI Azzurra**
  Uncooled unipolar receivers for 9 µm wavelength heterodyne detection
  PhD supervisor : Carlo Sirtori
  Defended on February 2, 2021
  `https://theses.hal.science/tel-03696501`

2022

- **HAKY Andrew**
  Semiconductor quantum plasmonics
  PhD supervisor : Angela Vasanelli
  Defended on December 19, 2022
  `https://theses.hal.science/tel-04573769`

2023

- **BONAZZI Thomas**
  Unipolar quantum devices for high-speed mid-IR optoelectronics on InP
  PhD supervisor : Angela Vasanelli
  Defended on June 12, 2023
  `https://theses.hal.science/tel-04635855`

- **DANG-HUU Tung**
  Light manipulation for enhanced photodetection performance and novel functionalities in colloidal nanocrystal-based infrared sensors
  PhD supervisor : Angela Vasanelli
  Defended on September 27, 2023
  `https://theses.hal.science/tel-04573865`

- **DELY Hamza**
  High throughput free-space data transmission at room-temperature in the mid-infrared using ultrafast unipolar devices
  PhD supervisor : Carlo Sirtori
  Defended on March 27, 2023
  `https://theses.hal.science/tel-05019083v1`

- **DURUPT Laureline**
  New Single-Mode Quantum Cascade Laser Architectures for Free-Space Optical Communications
  PhD supervisor : Angela Vasanelli
  Defended on December 15, 2023

2024

- **BAHREHMAND Mohsen**
  Charge-sensitive infrared phototransistor in a microcavity architecture for 9.5 μm
  PhD supervisor : Yanko Todorov
  Defended on March 27, 2024
  `https://theses.hal.science/tel-04924387v1`

- **MARTIN Bruno**
  Scaling limits in disordered Statistical Mechanics
  PhD supervisor : Carlo Sirtori
  Defended on June 12, 2024

- **POLETTI Thomas**
  Modulateur de phase et d'amplitude, et photonique intégrée pour les télécommunications en espace libre dans l'infra-rouge lointain
  PhD supervisor : Carlo Sirtori
  Defended on March 7, 2024
  `https://theses.hal.science/tel-04630104v1`

- **SAEMIAN Mohammadreza**
  Dispositifs quantiques haute vitesse pour la communication en espace libre à 4 μm
  PhD supervisor : Carlo Sirtori
  Defended on May 28, 2024

2025

- **BAIK Jihye**
  Quantum Well Infrared Photodetectors at 9 ?m on InP in Metamaterial
  PhD supervisor : Carlo Sirtori
  Defended on October 22, 2025

- **DEL BALZO Livia**
  Enabling unipolar quantum technologies in the mid-infrared for telecommunications and LiDAR
  PhD supervisor : Angela Vasanelli
  Defended on February 13, 2025

- **MASTRANGELLO Marta**
  Émetteur à Cascade Quantique à 9 µm à base de métamateriaux
  PhD supervisor : Carlo Sirtori
  Defended on April 11, 2025

- **IQBAL Usama**
  Blocage de Coulomb dynamique pour l'exploration du couplage lumière-matière ultra-fort avec des méta-atomes térahertz
  PhD supervisor : Yanko Todorov
  Defended on May 26, 2025

Team *Condensed Matter Theory*

2023

- **PHILIPPE Alwin**
  Theoretical study of electronic states and linear optical properties of superlattices, and thermionic cooling in heterostructures
  PhD supervisor : Francesca Carosella
  Defended on July 21, 2023
  `https://theses.hal.science/tel-04335435v1`

Team *Nano-THz*

2019

- **PISTORE Valentino**
  Modelocking of THz quantum cascade lasers: dispersion control and non-linearities
  PhD supervisor : Sukhdeep Dhillon
  Defended on November 28, 2019
  `https://tel.archives-ouvertes.fr/tel-03141220`

2020

- **KRIZMAN Gauthier**
  Magneto-optical study of topological phase transitions in $Pb_{1-x}Sn_xSe$ alloys and their heterostructures
  PhD supervisor : Yves Guldner
  Defended on October 2, 2020
  `https://tel.archives-ouvertes.fr/tel-03271063`

- **HUANG Panhui**
  graphene-based devices for terahertz technology
  PhD supervisor : Juliette Mangeney
  Defended on July 16, 2020
  `https://theses.hal.science/tel-03593139`

- **MASSABEAU Sylvain**
  Optical and electronic properties of graphene quantum dots in the Terahertz spectral range
  PhD supervisor : Juliette Mangeney
  Defended on November 24, 2020
  `https://theses.hal.science/tel-03699753`

2021

- **HAWECKER Jacques**
  Terahertz time resolved spectroscopy of Intersubband Polaritons and Spintronic Emitters
  PhD supervisor : Sukhdeep Dhillon
  Defended on June 30, 2021
  `https://tel.archives-ouvertes.fr/tel-03470371`

- **VERGNET Hadrien**
  THz wave generation with two lamellar nanostructures: AlGaAs microcavities and PtSe2 thin films
  PhD supervisor : Jérôme Tignon, Emmanuel Baudin, Sukhdeep Dhillon
  Defended on December 3, 2021
  `https://theses.hal.science/tel-03828521`

- **MESSELOT Simon**
  Terahertz Tamm cavities for light-matter coupling with graphene based materials
  PhD supervisor : Juliette Mangeney

Defended on December 16, 2021
https://theses.hal.science/tel-04277116v1

2022

- **KERJOUAN Romaine**
  Synchrotron-like THZ emitters based on corrugated graphene
  PhD supervisor : Robson Ferreira
  Defended on October 6, 2022
  https://theses.hal.science/tel-04977266v1

- **SONG Chao**
  Ultrafast terahertz properties of ultra-thin metallic structures - from terahertz pulses to harmonic generation
  PhD supervisor : Sukhdeep Dhillon
  Defended on September 27, 2022
  https://theses.hal.science/tel-05018580v1

2023

- **APRETNA Thibault**
  HgTe nanocrystals and graphene quantum dots for THz optoelectronics : intraband absorption, carrier dynamics and coherent THz emission
  PhD supervisor : Juliette Mangeney
  Defended on March 28, 2023
  https://theses.hal.science/tel-04155941v1

- **HEMMAT Minoosh**
  the Layer-dependent optical properties of two-dimensional PtSe2 for mid-infrared and terahertz photonics
  PhD supervisor : Sukhdeep Dhillon
  Defended on November 24, 2023
  https://theses.hal.science/tel-05371352v1

2024

- **ABAJYAN Pavel**
  Génération et Contrôle de Peignes de Fréquences Optiques dans les Lasers à Cascades Interbandes
  PhD supervisor : Sukhdeep Dhillon
  Defended on February 29, 2024
  https://theses.hal.science/tel-04557609v1

- **BERMEJO ORTIZ Joaquin**
  Topology, symmetry breaking, and valleys in IV-VI Dirac systems
  PhD supervisor : Louis-Anne De Vaulchier
  Defended on April 26, 2024

- **COEYMANS Solen**
  Graphene double quantum dots and hybrid resonators for THz quantum devices
  PhD supervisor : Juliette Mangeney
  Defended on November 7, 2024
  `https://theses.hal.science/tel-04934825v1`

2025

- **DE VETTER Anna**
  Photonic Engineering and Ultrafast Dynamics of THz devices : From THz cavity-based detectors to hybrid 2D material-Quantum Cascade Lasers
  PhD supervisor : Sukhdeep Dhillon
  Defended on December 10, 2025

- **WRIGHT Adrien**
  Ultrafast Terahertz Currents and Photonics in Spintronic and 2D Materials
  PhD supervisor : Sukhdeep Dhillon
  Defended on December 4, 2025

Team *Physics of Fluctuations, Correlations and Information*

2019

- **GRANET Etienne**
  Advanced integrability techniques and analysis for quantum spin chains
  PhD supervisor : Jesper Jacobsen
  Defended on September 3, 2019
  `https://tel.archives-ouvertes.fr/tel-02308192`

- **KRAJENBRINK Alexandre**
  Beyond the typical fluctuations: a journey to the large deviations of the Kardar-Parisi-Zhang growth model
  PhD supervisor : Pierre Le Doussal
  Defended on June 20, 2019
  `https://tel.archives-ouvertes.fr/tel-02537219`

- **COUVREUR Romain**
  Geometric lattice models and irrational confomal field theories
  PhD supervisor : Jesper Jacobsen
  Defended on June 25, 2019
  `https://tel.archives-ouvertes.fr/tel-02569051`

- **JIN Tony**
  From noisy spin chains to quantum exclusion processes: case studies of stochastic open quantum many-body systems
  PhD supervisor : Denis Bernard
  Defended on September 25, 2019
  `https://tel.archives-ouvertes.fr/tel-02879969`

2020

- **ROBERTSON Niall**
  Non-compact conformal field theory and lattice models — the open case
  PhD supervisor : Jesper Jacobsen
  Defended on June 16, 2020
  `https://tel.archives-ouvertes.fr/tel-02909756`

- **WALTER Benjamin**
  Field Theories for Stochastic Processes
  PhD supervisor : Kay Wiese (codirector)
  Defended on April 1, 2020

- **LE PRIOL Clément**
  Long range interactions in the avalanches of elastic interfaces
  PhD supervisor : Pierre Le Doussal
  Defended on November 13, 2020
  `https://theses.hal.science/tel-03191605`

2021

- **GAUTIÉ Tristan**
  Stochastic and quantum dynamics of repulsive particles: from random matrices to trapped fermions
  PhD supervisor : Pierre Le Doussal
  Defended on November 4, 2021
  `https://theses.hal.science/tel-03884840`

2022

- **LAFAY Augustin**
  Geometrical lattice models, algebraic spiders and applications to random geometry
  PhD supervisor : Jesper Jacobsen
  Defended on September 12, 2022
  `https://theses.hal.science/tel-03966966v1`

- **TER BURG Cathelijne**
  Measurements of the FRG fixed-point function and what we can learn from them
  PhD supervisor : Kay Wiese
  Defended on March 25, 2022
  `https://theses.hal.science/tel-04497913v1`

- **MUKERJEE Gauthier**
  The depinning transition of the quenched Kardar-Parisi-Zhang equation
  PhD supervisor : Kay Wiese
  Defended on December 15, 2022

2023

- **CHERNYAK Dmitry**
  Schur-Weyl duality and exact solvability of non-compact quantum lattice models
  PhD supervisor : Jesper Jacobsen
  Defended on September 22, 2023
  `https://theses.hal.science/tel-01177040v1`

- **DIAZ Manuel**
  Non-equilibrium theory of resistive switching in strongly correlated quantum materials
  PhD supervisor : Denis Bernard, Camille Aron
  Defended on February 21, 2023
  `https://theses.hal.science/tel-05314436v1`

- **GOURAUD Gabriel**
  Dynamique hors équilibre et systèmes désordonnés
  PhD supervisor : Pierre Ledoussal
  Defended on September 21, 2023
  `https://theses.hal.science/tel-04390068v1`

2024

- **HRUZA Ludwig**
  Fluctuation of coherences in noisy mesoscopic quantum systems with diffusive transport
  PhD supervisor : Denis Bernard
  Defended on February 16, 2024

2025

- **SEMEYKIN Mikhail**
  Depinning and Large-Order Behavior in Functional Renormalization
  PhD supervisor : Kay Wiese
  Defended on October 3, 2025

- **TOUZO Léo**
  Exact results for active particle models: from long-range interactions to first-passage properties
  PhD supervisor : Pierre Ledoussal
  Defended on June 12, 2025

Team *Disordered Systems and Applications*

2019

- **GABRIÉ Marylou**
  Towards an understanding of neural networks : mean-field incursions
  PhD supervisor : Krzakala Florent
  Defended on September 20, 2019
  `https://tel.archives-ouvertes.fr/tel-02921539`

- **SCALLIET Camille**
  Amorphous solids from the glass transition to 1 Kelvin
  PhD supervisor : Francesco Zamponi
  Defended on September 26, 2019
  `https://theses.hal.science/tel-02490838`

2020

- **ROY Félix**
  Dynamics of Interacting Species in Ecosystems
  PhD supervisor : Giulio Biroli
  Defended on November 25, 2020
  `https://tel.archives-ouvertes.fr/tel-03105957`

- **SHARMA Dhruv**
  Macroeconomic agent-based models : a statistical physics perspective
  PhD supervisor : Francesco Zamponi
  Defended on November 26, 2020
  `https://tel.archives-ouvertes.fr/tel-03199888`

- **BUDZYNSKI Louise**
  Algorithmic barriers in random Constraint Satisfaction Problems
  PhD supervisor : Guilhem Semerjian
  Defended on September 29, 2020
  `https://tel.archives-ouvertes.fr/tel-03207370`

- **ABBARA Alia**
  Statistical mechanics of inference problems with correlated patterns : an incursion between the replica method and message passing algorithms
  PhD supervisor : Krzakala Florent
  Defended on November 10, 2020
  `https://tel.archives-ouvertes.fr/tel-03497407`

- **DONG Jonathan**
  A computational tour on random matrices: computational imaging and optical computing
  PhD supervisor : Krzakala Florent
  Defended on November 17, 2020
  `https://theses.hal.science/tel-03636999`

2021

- **MAILLARD Antoine**
  Fundamental limits of high-dimensional estimation : a stroll between statistical physics, probability and random matrix theory
  PhD supervisor : Krzakala Florent
  Defended on August 30, 2021
  `https://tel.archives-ouvertes.fr/tel-03474190`

2022

- **OHANA Ruben**
  Leveraging (physical) randomness in machine learning algorithms
  PhD supervisor : Florent Krzakala
  Defended on September 16, 2022
  `https://theses.hal.science/tel-03828849`

- **REFINETTI Maria**
  The Role of Architecture, Data Structure and Algorithm in Machine Learning : a Statistical Physics Approach
  PhD supervisor : Florent Krzakala
  Defended on June 24, 2022
  `https://theses.hal.science/tel-03850746`

- **D'ASCOLI Stéphane**
  Overparametrization, architecture and dynamics of deep neural networks: from theory to practice
  PhD supervisor : Giulio Biroli
  Defended on June 22, 2022
  `https://theses.hal.science/tel-04627374v1`

2023

- **BISARDI Matteo**
  Protein evolution and sequence landscapes
  PhD supervisor : Francesco Zamponi
  Defended on November 29, 2023
  `https://theses.hal.science/tel-04696587`

- **FRABOUL Jules**
  Eco-evolutionary dynamics of multi-species communities
  PhD supervisor : Giulio Biroli
  Defended on September 14, 2023
  `https://theses.hal.science/tel-04399626v1`

- **VENTURA Enrico**
  Demolition and Reinforcement of Memories in Spin Glass-like Neural Networks
  PhD supervisor : Francesco Zamponi
  Defended on December 1, 2023
  `https://theses.hal.science/tel-04862247v1`

- **CAMILLI Francesco**
  Nouvelles perspectives en mécanique statistique et inférence à haute dimension
  PhD supervisor : Marc Mézard
  Defended on March 21, 2023
  `https://theses.hal.science/tel-05034671v1`

2025

- **BROSSOLET Antonin**
  A Story of Scales: Renormalization Group, Wavelets and Effective Theories to Explore Physics Far from Equilibrium
  PhD supervisor : Giulio Biroli
  Defended on September 5, 2025

- **GARCIA LORENZANA Giulia**
  Coupling complex systems: from ecological metacommunities to non-reciprocal interactions
  PhD supervisor : Giulio Biroli
  Defended on June 17, 2025

Team *Statistical Physics and Inference for Biology*

2020

- **MARCHI Jacopo**
  Statistical mechanics of viral-immune co-evolution
  PhD supervisor : Thierry Mora, Aleksandra Walczak
  Defended on September 23, 2020
  `https://tel.archives-ouvertes.fr/tel-03013175`

- **BATTISTA Aldo**
  Low-dimensional continuous attractors in recurrent neural networks: from statistical physics to computational neuroscience
  PhD supervisor : Rémi Monasson
  Defended on October 27, 2020
  `https://tel.archives-ouvertes.fr/tel-03203294`

- **MOLARI Marco**
  Modeling and Bayesian inference for antibody affinity maturation
  PhD supervisor : Simona Cocco
  Defended on October 29, 2020
  `https://tel.archives-ouvertes.fr/tel-03267835`

- **LEFEBVRE Baptiste**
  Online characterization of the retinal network
  PhD supervisor : Olivier Marre, Thierry Mora
  Defended on December 11, 2020
  `https://tel.archives-ouvertes.fr/tel-03272760`

2021

- **ISACCHINI Giulio**
  Statistical Learning of Immune Receptor Repertoires
  PhD supervisor : Thierry Mora, Aleksandra Walczak
  Defended on September 28, 2021
  `https://theses.hal.science/tel-04012451v1`

- **ROUSSEL Clément**
  Learning and Sampling Complex Landscapes with Restricted Boltzmann Machines: from Theory to the Fitness of the TEM-1 Protein
  PhD supervisor : Simona Cocco
  Defended on December 2, 2021
  `https://theses.hal.science/tel-03774086`

- **FANTHOMME Arnaud**
  Recurrent Neural Networks models: inference, representations, and the role of regularization
  PhD supervisor : Rémi Monasson
  Defended on December 8, 2021
  `https://theses.hal.science/tel-04117542v2`

2022

- **SPISAK Natanael**
  Statistical inference of evolutionary paths
  PhD supervisor : Thierry Mora, Aleksandra Walczak
  Defended on July 8, 2022
  `https://theses.hal.science/tel-05019827v1`

- **CHARDES Victor**
  Inference and modeling of biological networks: from active matter to the immune system
  PhD supervisor : Thierry Mora, Aleksandra Walczak
  Defended on September 21, 2022
  `https://theses.hal.science/tel-04645457v1`

- **BENSOUDA Meriem**
  Statistical biophysics models of immune repertoire dynamics
  PhD supervisor : Thierry Mora, Aleksandra Walczak
  Defended on September 23, 2022
  `https://theses.hal.science/tel-04878814v1`

- **MALBRANKE Cyril**
  Building synergies between evolution-based and physic-grounded protein modeling: computational design of novel functional Cas9 enzymes
  PhD supervisor : Rémi Monasson
  Defended on November 30, 2022

2023

- **CAMAGLIA Francesco**
  Statistical Analysis of Thymic Maturation
  PhD supervisor : Thierry Mora, Aleksandra Walczak
  Defended on June 26, 2023
  `https://theses.hal.science/tel-04311106`

- **MAURI Eugenio**
  Reconstructing evolution with data-driven models: from epistasis inference to mutational paths
  PhD supervisor : Simona Cocco
  Defended on November 10, 2023

- **RUIZ ORTEGA Maria**
  Statistical response in immune repertoires
  PhD supervisor : Thierry Mora, Aleksandra Walczak
  Defended on June 27, 2023

2024

- **LOFFREDO Emanuele**
  Learning and modeling in biological systems: from minimal representation to real data
  PhD supervisor : Rémi Monasson
  Defended on October 31, 2024

- **MAHUAS Gabriel**
  Sensory coding in strongly correlated neural populations
  PhD supervisor : Thierry Mora
  Defended on September 16, 2024
  `https://theses.hal.science/tel-04839909v1`

- **LEGENKAIA Mariia**
  Reconstruction de trajectoires neuronales de basse dimension à partir des enregistrements de l'activité de population : des limitations statistiques à la conception expérimentale
  PhD supervisor : Rémi Monasson
  Defended on December 10, 2024
  `https://theses.hal.science/tel-04967993v1`

2025

- **ABBATE Maria Francesca**
  Computational detection of antigen-specific B-cell receptor following immunization
  PhD supervisor : Aleksandra Walczak
  Defended on January 9, 2025

- **PEREIRA Paul**
  Intelligence Artificielle (IA) Générative pour la Conception de Protéines Thérapeutiques
  PhD supervisor : Thierry Mora
  Defended on March 31, 2025

- **KARNAUKOV Vadim**
  Modeling T Cell Decision-Making: Repertoire Diversity, Fate Choice, And Antigen Specificity
  PhD supervisor : Aleksandra Walczak
  Defended on December 4, 2025

Team *Classical and Quantum Many-Body Systems*

2020

- **QIN Liang**
  Application of irreversible Monte Carlo in realistic long-range systems
  PhD supervisor : Werner Krauth
  Defended on October 21, 2020
  `https://tel.archives-ouvertes.fr/tel-02998657`

2021

- **DAGARD Victor**
  Renormalization and disorder
  PhD supervisor : Bernard Derrida
  Defended on September 3, 2021
  `https://theses.hal.science/tel-03486163v1`

2022

- **LI Botao**
  Computation and models: Case studies for hard disks in statistical physics and for deep learning
  PhD supervisor : Werner Krauth
  Defended on December 14, 2022
  `https://theses.hal.science/tel-04791080v1`

2023

- **BIGUÉ Arnaud**
  From few- to many-body physics: study of an impurity in a spin-1/2 Fermi superfluid
  PhD supervisor : Xavier Leyronas
  Defended on September 9, 2023
  `https://theses.hal.science/tel-05107882v1`

Team *Theoretical Biophysics and Neuroscience*

2019

- **CONTRERAS Diego**
  Modeling morphogenesis of epitheial tissues : from forces to geometry and back
  PhD supervisor : Vincent Hakim, Francis Corson
  Defended on December 16, 2019
  `https://tel.archives-ouvertes.fr/tel-03260200`

2020

- **BERLEMONT Kevin**
  From neural coding to descision making
  PhD supervisor : Jean-Pierre Nadal
  Defended on June 29, 2020
  `https://tel.archives-ouvertes.fr/tel-03154023`

2021

- **QU Qiuyang**
  Modelling growing epithelium
  PhD supervisor : Martine Ben Amar
  Defended on July 7, 2021
  `https://theses.hal.science/tel-03956847`

2022

- **ACKERMANN Joseph**
  Gowth and mechanics of cellular structure
  PhD supervisor : Martine Ben Amar
  Defended on January 24, 2022
  `https://theses.hal.science/tel-03885483`

- **KANG Ling**
  Oscillations, synchronization and waves in neuronal networks
  PhD supervisor : Vincent Hakim
  Defended on November 20, 2022
  `https://theses.hal.science/tel-04959179v1`

- **NGHIEM Trang-Anh**
  Visual coding in the presence of spontaneous neural activity and eye movements
  PhD supervisor : Rava Azeredo Da Silveira
  Defended on March 28, 2022

- **BLANCO MALERBA Simone**
  Encoding and decoding of information through efficient neural representations
  PhD supervisor : Rava Azeredo Da Silveira
  Defended on December 19, 2022
  `https://theses.hal.science/tel-04639048v1`

2023

- **DAI Anna**
  Morphogenesis and Growth of Soft Biological tissue
  PhD supervisor : Martine Ben Amar
  Defended on September 18, 2023
  `https://theses.hal.science/tel-04703170`

- **TROISI Lucie**
  Development of a new class of synthetic gene circuits based on protein-protein interactions
  PhD supervisor : Vincent Hakim
  Defended on October 13, 2023

- **MOLNAR Kelly**
  Contribution of non-muscle myosins to C-elegans embryonic elongation
  PhD supervisor : Michel Labouesse, Martine Ben Amar
  Defended on April 14, 2023
  `https://theses.hal.science/tel-04242407`

2024

- **HERNANDEZ Claudio**
  The Physics of Early Drosophila Development
  PhD supervisor : Massimo Vergassola
  Defended on September 26, 2024
  `https://theses.hal.science/tel-04876697v1`

- **PATIL Nirbhay**
  A statistical mechanics approach to understanding economic inequalities
  PhD supervisor : Jean-Pierre Nadal
  Defended on October 15, 2024

Team *Microfluidics, Emulsion and Biology*

2019

- **CHORLAY Aymeric**
  Physics of lipid droplet biogenesis
  PhD supervisor : Abdou Rachid Thiam
  Defended on November 29, 2019
  `https://tel.archives-ouvertes.fr/tel-03248641`

- **AJJAJI Dalila**
  Interaction of hepatitis C virus core protein with lipid droplets : mechanism and function
  PhD supervisor : Abdou Rachid Thiam
  Defended on December 20, 2019
  `https://theses.hal.science/tel-03700180`

2021

- **SANTINHO Alexandre**
  Lipid Droplet Nucleation in the Endoplasmic Reticulum Membrane of the Cell
  PhD supervisor : Abdou Rachid Thiam
  Defended on December 10, 2021
  `https://theses.hal.science/tel-04197641v1`

- **FAUGERAS Vincent**
  Cellular Permeability Assessment of Drugs through Biomimetic Droplet Interface Bilayers
  PhD supervisor : Abdou Rachid Thiam
  Defended on December 16, 2021
  `https://theses.hal.science/tel-04268818v1`

2023

- **BHAPKAR Apoorva**
  Unmasking the Interplay of SCAP and ACAT in Sterol Sensing and Cholesterol Ester Function Beyond Storage in Lipid Droplets
  PhD supervisor : Abdou-Rachid Thiam
  Defended on December 6, 2023

- **CARPENTIER Maxime**
  Effet de l'absence de Seipin sur l'homéostasie lipidique cellulaire et le trafic des protéines
  PhD supervisor : Abdou-Rachid Thiam
  Defended on December 13, 2023

- **DUMESNIL Calvin**
  Biogenesis of cholesterol-ester-rich lipid droplets
  PhD supervisor : Abdou-Rachid Thiam
  Defended on December 11, 2023

Team *Multiscale Physics of Living Systems*

2019

- **PERON CANE Caroline**
  Monitoring bacterial secreted proteins in real time
  PhD supervisor : Nicolas Desprat, Alice Lebreton
  Defended on October 7, 2019
  `https://tel.archives-ouvertes.fr/tel-03139872`

2020

- **HAMOURI Fatima**
  Optical control of protein activity and gene expression by photo-activation of caged-cyclofen for cancer initiation studies
  PhD supervisor : David Bensimon
  Defended on July 10, 2020

2021

- **RIEU Martin**
  Kinetic locking and nanometric tracking of nucleic acid extension using super-resolved magnetic tweezers
  PhD supervisor : Jean-François Allemand, Vincent Croquette
  Defended on March 15, 2021
  `https://theses.hal.science/tel-03612821`

2023

- **EISENMANN Isabelle**
  Phototaxis and collective phenomena in the motile micro-alga Chlamydomonas reinhardtii
  PhD supervisor : Nicolas Desprat
  Defended on December 1, 2023
  `https://theses.hal.science/tel-04794379v1`

Team *Membrane Molecular Mechanisms*

2020

- **FAVIER Sophie**
  Role of the JUNO oocyte protein in the mechanism of block to polyspermy in mammals
  PhD supervisor : Christine Gourier
  Defended on May 20, 2020
  `https://tel.archives-ouvertes.fr/tel-03482588`

2022

- **THIMONIER Chloé**
  Sonosensitive emulsions for therapeutic applications
  PhD supervisor : Nicolas Taulier (co-encadrant Wladimir Urbach)
  Defended on September 22, 2022
  `https://theses.hal.science/tel-04421301v2`

2023

- **DUBOIS Yaelle**
  Role and implication of post-fertilization release of CD9 and JUNO in polyspermy block
  PhD supervisor : Christine Gourier
  Defended on December 15, 2023
  `https://theses.hal.science/tel-05415684v1`

2024

- **MARTIN-FORNIER Nathan**
  Mammalian fertilization: impact of the spermatozoon's flagellar beating force and its consequences
  PhD supervisor : Christine Gourier
  Defended on February 27, 2024

2025

- **BUNEL Louis**
  Study of cations as regulators of membrane processes: modulation of membrane fusion through lipid?-cation interactions and procollagen export driven by a proton gradient
  PhD supervisor : Frederic Pincet
  Defended on September 12, 2025

- **MION Delphine**
  Membranes remodeling by proteins in intracellular trafficking: a bottom-up approach of

the roles of golgins for Golgi structuration and of SNAREs for synaptic fusion
PhD supervisor : Frederic Pincet
Defended on February 7, 2025
`https://theses.hal.science/tel-05025490v1`

- **VANNIER Felix**
  Functional Roles of Golgin Proteins at the Golgi Apparatus: Membrane-Induced Protein Condensation and Vesicle Tethering Mechanisms Explored with Model Membranes
  PhD supervisor : Frederic Pincet
  Defended on September 16, 2025

Team *Active Cell Matter*

2023

- **AMIRI Sirine**
  Quantification of cytoskeleton-nucleus mechanotransduction during cell squeezing through narrow spaces
  PhD supervisor : Cecile Sykes
  Defended on December 12, 2023
  `https://theses.hal.science/tel-05283804v1`

- **d'HUMIERES Johan**
  The mechanical role of the nucleus in cell invasion in Caenorhabditis elegans
  PhD supervisor : Julie Plastino
  Defended on December 7, 2023

Team *Micromegas : Nano-Fluidics*

2019

- **POGGIOLI Anthony**
  Nonlinear ionic transport at the nanometric and Ångströmetric scales
  PhD supervisor : Lydéric Bocquet
  Defended on November 28, 2019
  `https://tel.archives-ouvertes.fr/tel-02869126`

- **CANALE Luca**
  Multiscale ice and snow friction
  PhD supervisor : Lydéric Bocquet
  Defended on September 12, 2019
  `https://tel.archives-ouvertes.fr/tel-03371506`

2020

- **LAINÉ Antoine**
  Sliding friction at the nanoscale
  PhD supervisor : Alessandro Siria
  Defended on September 1, 2020

2021

- **MARCOTTE Alice**
  Experimental study of the dynamic properties of the liquid-carbon interface at the nanoscale
  PhD supervisor : Lydéric Bocquet
  Defended on December 13, 2021
  `https://theses.hal.science/tel-04207920v1`

- **EMMERICH Théo**
  Activated carbon nanofluidics: from blue energy to ionic memory
  PhD supervisor : Lydéric Bocquet
  Defended on December 16, 2021
  `https://theses.hal.science/tel-03603163`

- **KAVOKINE Nikita**
  Many-body effects in nanoscale fluid transport
  PhD supervisor : Lydéric Bocquet
  Defended on June 30, 2021
  `https://theses.hal.science/tel-03332325`

2022

- **DODE Antoine**
  On the frictions and motion of rowing boats

PhD supervisor : Lydéric Bocquet
Defended on December 8, 2022
`https://theses.hal.science/tel-04611783v1`

2023

- **CHAPUIS Nicolas**
  Nouvelles approches pour l'énergie osmotique et les chaleurs perdues
  PhD supervisor : Lydéric Bocquet
  Defended on December 18, 2023

- **ROBIN Paul**
  Corrélations et fluctuations dans le transport d'ions aux nanoéchelles
  PhD supervisor : Lydéric Bocquet
  Defended on July 7, 2023

2024

- **COQUINOT Baptiste**
  Couplages électro-fluidiques induits par les fluctuations à l'interface solide-liquide
  PhD supervisor : Lydéric Bocquet
  Defended on June 5, 2024
  `https://theses.hal.science/tel-04887563v1`

- **LIZEE Mathieu**
  Measurement of electro-hydrodynamic friction
  PhD supervisor : Alessandro Siria
  Defended on June 18, 2024

2025

- **JOUVESHOMME Simon**
  Experimental study of memory effects in the ionic transport at the nanoscale
  PhD supervisor : Lyderic Bocquet
  Defended on September 25, 2025

- **TOQUER Damien**
  Structure and transport in electrolytes under 2D nanoconfinement
  PhD supervisor : Lyderic Bocquet
  Defended on June 27, 2025

Team *Mechanics, Soft Matter and Morphogenesis*

2020

- **JULES Théo**
  Geometry and mechanics of origamis
  PhD supervisor : Mokhtar Adda-Bedia
  Defended on October 12, 2020
  `https://tel.archives-ouvertes.fr/tel-03128874`

2022

- **BOSSERT Marine**
  Experimental study of cavitation in mesoporous materials
  PhD supervisor : Etienne Rolley
  Defended on July 8, 2022
  `https://theses.hal.science/tel-03850750`

2023

- **DOUIN Adèle**
  Seismic Events Prediction in Knitted Fabric through Deep Learning
  PhD supervisor : Frederic Lechenault
  Defended on March 20, 2023
  `https://theses.hal.science/tel-05097653v1`

2024

- **GLUKHOVA Svetlana**
  Cutting Soft Materials
  PhD supervisor : Fréderic Lechenault
  Defended on September 26, 2024
  `https://theses.hal.science/tel-04923598v1`

- **MICHEL Laura**
  Model mechanical metamaterials for memory storage and computation
  PhD supervisor : Fréderic Lechenault
  Defended on September 20, 2024

- **POYDENOT Florian**
  Des gouttelettes à la pluie : croissance et coalescence à travers les échelles dans les nuages
  PhD supervisor : Bruno Andreotti
  Defended on July 4, 2024

Team *Non-Linear Physics*

2021

- **PRABHUDESAI Gaurav**
  Fluctuations in turbulent flows
  PhD supervisor : Stephan Fauve, François Pétrélis
  Defended on February 17, 2021
  `https://tel.archives-ouvertes.fr/tel-03192088`

- **VAN KAN Adrian**
  Critical transitions in turbulence
  PhD supervisor : Alexandros Alexakis, Marc Brachet
  Defended on September 9, 2021
  `https://theses.hal.science/tel-03979252v1`

2023

- **VERNET Marlone**
  Turbulence, transport and thermoelectricity in liquid metals
  PhD supervisor : Christophe Gissinger
  Defended on October 27, 2023
  `https://theses.hal.science/tel-04714108v1`

- **FILLETTE Jules**
  Dynamics of axisymmetric wave focusing on the surface of a fluid
  PhD supervisor : stephan Fauve, Eric Falcon
  Defended on July 12, 2023

2024

- **DANIEL Florentin**
  Instabilities and turbulent transport in astrophysical hydrodynamic systems
  PhD supervisor : Christophe Gissinger
  Defended on September 25, 2024

- **MOUET Valentin**
  Turbulence en milieu diphasique
  PhD supervisor : Francois Pétrélis
  Defended on October 3, 2024

2025

- **BERMUDEZ Guillaume**
  Magnetohydrodynamic Waves, Instabilities, and Non-linear Phenomena in Liquid Metals

PhD supervisor : Christophe Gissinger
Defended on July 10, 2025

Team *Fields, Gravity and Strings*

2019

- **DUAN Zhihao**
  Topological string theory and applications
  PhD supervisor : Amir-Kian Kashani-Poor
  Defended on July 8, 2019
  `https://tel.archives-ouvertes.fr/tel-02341882`

- **LAVDAS Ioannis**
  AdS_4/CFT_3 and quantum gravity
  PhD supervisor : Costas Bachas
  Defended on October 3, 2019
  `https://tel.archives-ouvertes.fr/tel-02966558`

- **ZAN Bernardo**
  Studies in strongly coupled quantum field theories and renormalization group flows
  PhD supervisor : Slava Rychkov
  Defended on November 7, 2019

- **ZHONG Deliang**
  Correlation Functions in Integrable Higher-dimensional CFTs
  PhD supervisor : Valdimir Kazakov, Benjamin Basso
  Defended on September 30, 2019

2020

- **GE Dongsheng**
  Quantum information encoded in semi-classical gravity
  PhD supervisor : Giuseppe Policastro
  Defended on September 28, 2020
  `https://tel.archives-ouvertes.fr/tel-03262512`

- **LI Songyuan**
  Topological holography
  PhD supervisor : Jan Troost
  Defended on November 27, 2020
  `https://tel.archives-ouvertes.fr/tel-03269600`

2021

- **FERRANDO Gwenael**
  Non-compact Integrable Spin Chain for the Conformal Fishnet Theory
  PhD supervisor : Vladimir Kazakov
  Defended on September 15, 2021
  `https://theses.hal.science/tel-03987820v1`

2022

- **QIAO Jiaxin**
  On the Wick Rotation of the Four-point Function in Conformal Field Theories
  PhD supervisor : Slava Rychkov
  Defended on June 14, 2022
  `https://theses.hal.science/tel-04583922`

- **PAPADOPOULOS Vassilis**
  Membranes, Holography and Quantum Information
  PhD supervisor : Costas Bachas
  Defended on November 22, 2022
  `https://theses.hal.science/tel-04648562v1`

2023

- **JARAMILLO DUQUE David**
  Topological strings and Higgsing trees
  PhD supervisor : Amir-Kian Kashani-Poor
  Defended on September 22, 2023

- **SIROIS Benoit**
  Développement et application de nouvelles méthodes pour le bootstrap conforme numérique
  PhD supervisor : Slava Rychkov
  Defended on September 21, 2023
  `https://theses.hal.science/tel-05294350v1`

- **ZHENG Zechuan**
  Bootstrap Method in Theoretical Physics
  PhD supervisor : Miguel Paulos, Vladimir Kazakov
  Defended on September 15, 2023
  `https://theses.hal.science/tel-05306328v1`

2025

- **CHEN Zhongwu**
  Results on Conformal Defects and Interfaces"
  PhD supervisor : Costas Bachas
  Defended on September 15, 2025

- **VASILAKI Christiana**
  The role of bound states in dark matter thermal decoupling in the early universe
  PhD supervisor : Kalliopi Petraki
  Defended on September 25, 2025
  `https://theses.hal.science/tel-05327541v1`

Team *Astrophysics*

2021

- **BELLOMI Elena**
  3D chemical structure of the interstellar medium
  PhD supervisor : Michel Pérault, Patrick Hennebelle, Benjamin Godard
  Defended on February 12, 2021
  `https://tel.archives-ouvertes.fr/tel-03273709`
- **REGALDO SAINT BLANCARD Bruno**
  Statistical modeling of the polarized emission of interstellar dust
  PhD supervisor : François Levrier, François Boulanger
  Defended on November 2, 2021
  `https://theses.hal.science/tel-03600846`
- **DELL'OVA Pierre**
  Exploring the interstellar contents of a Pevatron: molecules, dust and star formation in the evolved supernova remnant IC443
  PhD supervisor : Maryvonne Gerin, Antoine Gusdorf
  Defended on December 9, 2021
  `https://theses.hal.science/tel-03828552`

2022

- **RICHARD Thibaud**
  Characteristics of turbulent dissipation in the interstellar medium
  PhD supervisor : Pierre Lesaffre
  Defended on March 30, 2022
  `https://theses.hal.science/tel-03850855`
- **CHARTIER Nicolas**
  Statistical methods to accelerate forward modelling of galaxy surveys data
  PhD supervisor : Nick Kaiser
  Defended on October 14, 2022
  `https://theses.hal.science/tel-04893576v1`

2023

- **WALTER Clément**
  Exploration de l'émission Galactique du CO avec les données de Planck
  PhD supervisor : François Levrier
  Defended on July 3, 2023
  `https://theses.hal.science/tel-01575418v1`

2024

- **RICHARD Pablo**
  Étude statistique des structures non gaussiennes du milieu interstellaire turbulent à partir

des données observationnelles
PhD supervisor : François Levrier
Defended on October 14, 2024

- **ARMANTE Mélanie**
L'origine de la distribution de masse des étoiles et de la complexité chimique dans les nuages en effondrement hiérarchique
PhD supervisor : Pierre Lesaffre, Antoine Gusdorf
Defended on March 6, 2024
`https://theses.hal.science/tel-05422272v1`

- **AUCLAIR Constant**
Modélisation statistique des avant-plans interstellaires au fond diffus cosmologique
PhD supervisor : François Boulanger, Erwan Allys
Defended on September 18, 2024

2025

- **BERAT Jack**
Learning the magneto-ionic side of interstellar turbulence revealed by radio-astronomy
PhD supervisor : Marc-Antoine Miville-Deschênes
Defended on September 22, 2025

Team *Cosmology and Gravitation*

2025

- **BRIAUD Vadim**
  Stochastic description of large primordial fluctuations in cosmology
  PhD supervisor : Vincent Vennin
  Defended on August 27, 2025