

Title	Period/Length	Supervisor	Pole	Team/Service	Can be followed with PhD ?	Title of the PhD ?	See more
Feasibility studies towards a precision cross-section measurement of the $e^+e^- \rightarrow \pi^+ \pi^-$ process using initial state radiation events at Belle II	Spring semester 2024	Zhiqing Zhang	PHE	Belle II	yes		see
Simulation and reconstruction in liquid argon TPC (ProtoDUNE) for measuring δ CP in the DUNE experiment Closed	Spring/Summer 2024	Thibaut Houdy / Yoann Kermaïdic	PHE	Neutrino	Yes, to be discussed		see

Title	Period/Length	Supervisor	Pole	Team/ Service	Can be followed with PhD ?	Title of the PhD ?	See more
Start to end simulations of laser-plasma injector for multi-GeV electron laser-plasma based LINAC	March to August 2024 (can start earlier)	Kevin Cassou	Accelerators	ALPHA	yes, application to doctoral school funding PHENIICS	10 GeV laser-plasma based accelerator design studies	see
Multi-zone plasma target development	March to August 2024 (can start earlier)	Bruno Lucas, Kevin Cassou	Accelerators	ALPHA	yes, application to doctoral school funding PHENIICS	Development of Laser Wakefield Plasma Targets for High Repetition Rate Operation	see
Commissioning of the PALLAS laser-plasma injector source	March to August 2024 (can start earlier)	Sophie Kazamias, Kevin Cassou	Accelerators	ALPHA	yes, application to IJClab CNRS funded PHD	Optimizing Laser-Plasma Accelerators through Machine Learning	see
Innovative laser-based dielectric accelerator based on ultra-short electron bunches	March to august 2024 (can start earlier)	Christelle Bruni	Accelerators	ALEA	yes	Innovative laser-based dielectric accelerator based on ultra-short electron bunches	see

Title	Period/Length	Supervisor	Team/ Service	Pole	Can be followed with PhD ?	Title of the PhD ?	See more
Using Deep Learning for Surface Analysis from Time-of-Flight Mass Spectrometry on the MOSAIC-Andromede Platform	From March 2024 – 5 to 6 months	Isabelle Ribaud/Françoise Bouvet	Sce developm ent/FIIRS T	Engineering/ Nuclear	yes in case of fundings		see

Title	Period/Length	Supervisor	Pole	Team/ Service	Can be followed with PhD ?	Title of the PhD ?	See more
-------	---------------	------------	------	------------------	----------------------------------	--------------------	-------------

Title	Period/Length	Supervisor	Pole	Team/ Service	Can be followed with PhD ?	Title of the PhD ?	See more
Fibre-phase-noise reduction for Gravitational-Wave detectors	between February/March and the end of June/July	Manuel Andia , Angélique Lartaux , Nicolas Leroy	A2C	Gravitational Waves	yes	Controlling suspended optical cavities for Advanced Virgo gravitational-wave detector	see

Title	Period/Length	Supervisor	Pole	Team/Service	Can be followed with PhD ?	Title of the PhD ?	See more
Plutonium management in PWRs: impact of granularity and links between fuel cycle plants on Pu management possibilities in PWRs	4 to 6 months, summer 2024	Marc Ernout	E&E	RAPHYNEE	yes	Analysis of uncertainties associated with Pu multi-recycling strategies in PWRs pending RNR deployment with the CLASS cycle simulation code	see
Impact of irradiation parameters on the alpha prime phase formation in oxidised dispersed strengthened steels (ODS)	between 4 and 6 months, in spring-summer 2024	Stéphanie Jublot-Leclerc. Marie Loyer-Prost (CEA). Aurelie Gentils	E&E	CHIMÈNE	yes		see

Title	Period/Length	Supervisor	Pole	Team/ Service	Can be followed with PhD ?	Title of the PhD ?	See more
Development on an endoscopic imaging probe based on MEMS mirror	6 months 2024	Darine Abi Haidar	Health	IMIT	yes		see
Fluorescence imaging and spectroscopy data processing from a pilot clinical study	6 months2024	Cécile Rimbault, Darine Abi Haidar	Santé	IMIT	yes		see

Title	Period/Length	Supervisor	Pole	Team/Service	Can be followed with PhD ?	Title of the PhD ?	See more
Transfer reactions in neutron-rich nickel isotopes	From January 2024	Serge Franchoo	Nuclear	SDF	yes	Transfer reactions in neutron-rich nickel isotopes	see
On/offline performance and simulations of tracking detectors for the Fragment Separator FRS	02/2024 – 08/2024 (6 months)	Radomira Lozeva	Nuclear	NEXT	yes	Isomer and moment studies of radioactive neutron-rich nuclei with gSPEC/DESPEC	see
Spectroscopie gamma d'isomères produits à des énergies relativistes	02/2024 – 08/2024 (6 mois)	Valentin PIAU	Nuclear	NEXT	yes	Isomer and moment studies of radioactive neutron-rich nuclei with gSPEC/DESPEC	see
Characterization of a low-energy test setup for developments of the S ³ low energy branch	March-July 2024 (flexible)	Vladimir Manea	Nuclear	FIIRST	yes	Laser spectroscopy of radionuclides and development of experimental methods using the S ³ Low Energy Branch	see

Title	Period/Length	Supervisor	Pole	Team/ Service	Can be followed with PhD ?	Title of the PhD ?	See more
Coordination of management, administrative and financial actions of a European project in the framework of the starting period	From March 1st 2024, between 5-6 months, depending training needs of the master	Ketel Turzó, Nathalie Chérel, Marie Amiens	STIRI	Service attached to lab Management			see