

Title	Period/Length	Supervisor	Team/Service	Pole	Can be followed with PhD ?	Title of the PhD ?	See more
Multiphoton fluorescence Imaging and analysis of human brain biopsy data	6 month	Darine Abi Haidar	IMIT	Health	yes		
MSSM-inflation: phenomenological study of a supersymmetric inflation model	2 to 3 months	Sophie Henrot-Versillé	CMB	A2C	yes		
Gamma spectroscopy of neutron-rich gallium isotopes	Spring 2021	Serge Franchoo	CMB	A2C	yes	Gamma spectroscopy near ^{78}Ni	
Development and calibration of cryogenic detectors for the RICOCHET and EDELWEISS experiments.	3 months or more	Stefanos Marnieros	ASSD	A2C	yes		
Observational scheduling and Physics of the Violent Universe in the framework of the GRANDMA-LSST/FINK collaboration Closed	More than 3 months	Nicolas Leroy Julien Peloton	OG	A2C	no		
Infrastructure for catching Gravitational Wave events and listening to the Violent Universe in the framework of the international GRANDMA collaboration Closed	3 months or more	Nicolas Leroy Patrice Hello	OG	A2C	no		
Measurement of the photon polarization in $b \rightarrow s\gamma$ transitions with the $B_s \rightarrow \phi e e$ decay within the LHCb experiment	3 months minimum	Marie-Hélène Schune	LHCb	PHE	yes	Angular analysis of the $B_s \rightarrow \phi e e$ decay and participation to the electromagnetic calorimeter commissioning within the LHCb experiment	

Calibration of the atmospheric transmission for the Vera C. Rubin observatory	2021	Sylvie Dagoret-Campagne	GREEN	A2C	yes	Search for dark matter with the first observations from the Rubin Observatory		
		Marc Moniez						
Multimodal tissue database of human brain tissue samples	6 months (2021)	Cécile Rimbault	IMIT	Health	yes	Multimodal and multiscale optical analysis of human brain tumor		
		Darine Abi Haidar						
Fast luminosity measurements at the SuperKEKB electron-positron collider at KEK (Tsukuba, Japan)	Minimum 2 months	Philip Bambade	Belle II	PHE		Can be considered by combining with a physics analysis topic in the Belle II experiment		
Description ab initio of nuclear decay and break-up during reactions in light nuclei	2021 / 3 months	Guillaume Hupin	PhyNet	Nuclear	yes	Ab initio modeling of nuclear decay and break-up during reactions with light nuclei		
Phenomenology of particle physics of flavour to search for signals beyond the Standard Model	2-6 months (2021)	Emi Kou	Theory	Theory	yes			
Gamma ray burst polarization measurement with CubeSat Compton telescope Closed	More than 3 months	Clarisse Hamadache	AC	A2C	eventually			
		Vincent Tatischeff						
Hadroproduction and photoproduction of charmonium in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ALICE muon spectrometer	~ 5 months (first semester 2021)	Laure Massacrier	Alice	PHE	yes	Charmonium photoproduction in Pb-Pb collisions with nuclear overlap measured with ALICE at the LHC		

Characterization of a CMOS-MAPS sensor for direct detection of beta+ dedicated to preclinical behavioral neuroimaging	March-June 2021	Marc-Antoine Verdier	IMIT	Health	yes	Validation and implementation of a beta+ endo-cranial microprobe for preclinical behavioral neuroimaging		
Probing the three-dimensional nucleon structure and the strong force through the production of quarkonia in combination with jets	2 to 3 months in Spring 2021	Jean-Philippe Lansberg	Théory/ ALICE	Théory/ PHE	yes	This internship can be preparatory to a Co-PhD with University College Dublin with the associated funding. Title of PhD: "Associated production of quarkonia with jet(s) at the LHC"		
		Charlotte Van Hulse						
Development of a new radiation detector for in-situ dose verification in radiotherapy	2021 (6 months)	Consuelo Guardiola	REV	Santé	yes			
Simulation studies of systematics for a electron beam polarimeter for SuperKEKB	6 weeks or more (~spring 2021)	Aurélien Martens	B- factories	PHE	yes	Search for CP violation in tau decays with the Belle II detector		