

Title	Period/Length	Supervisor	Team/ Service	Pole	Can be followed with PhD ?	Title of the PhD ?	See more
Target production and characterization for the production of radionuclides for health	Between 6 and 8 months	Charles-Olivier Bacri	REV	Health	yes	From Gd-155 target to Tb-155 production, a radionuclide for health	see

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Study of the (Brout-Englert-) Higgs boson in the diphoton channel and calibration of the ATLAS electromagnetic calorimeter	All periods of 2022	Marc Escalier / Louis Fayard	ATLAS	PHE	yes	similar title	see
Studies related to the measurement of the W mass with the ATLAS experiment	All periods of 2022	Zhiqing Zhang / Louis Fayard	ATLAS	PHE	yes	similar title	see
Study of the pair production of (Brout-Englert-) Higgs boson and calibration of the ATLAS electromagnetic calorimeter	All periods of 2022	Marc Escalier / Louis Fayard	ATLAS	PHE	yes	similar title	see
Jpsi production in p-Pb collisions with ALICE at the LHC	3-5 months starting on April 2022	Z. Conesa del Valle, C. Cot	ALICE	PHE	yes	Double charm production measurements in hadronic collisions with ALICE at the LHC	see
New precision measurements of electroweak parameters and proton structure functions with the ATLAS detector at the LHC	All periods of 2022	Zhiqing Zhang / Louis Fayard	ATLAS	PHE	yes	similar title	see
Preparation of the ALERT experiments at the Jefferson Lab (USA)	Spring 2022	Raphaël Dupré	JLab/EIC	PHE	yes	Study of the Quarks and Gluons Structure of the Helium Nucleus at Jefferson Lab (USA)	see
Study of vector boson scattering with the ATLAS detector Closed	Winter/Spring 2022	Nicolas Morange	ATLAS	PHE	yes	similar title	see

Study of the proton structure via Deeply Virtual Compton Scattering using the CLAS12 detector at Jefferson Lab (USA)	3-4 months spring 2022	Mostafa Hoballah	JLab/EIC	PHE	yes	The Partonic Structure of the Nucleon	see
Reconstruction of $e+e- \rightarrow \tau+\tau-$ gamma events with Belle II Closed	May-July 2022	Aurélien Martens	B- factories	PHE	oui	Study of τ decays with the Belle II detector	see

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Simulation, optimization and test of beam transport in the ALTO-LEB area	April –July 2022 or March – August 2022	Luc Perrot, Enrique Minaya Ramirez	BIMP	Accelerators	yes	Transport and preparation studies of radioactive ions beams produced by photofission at the ALTO low energy beam area for precision experiments.	see
Ultra-fast measurements for high peak current electron bunch	4-6 month (2022)	Christelle Bruni	BIMP	Accelerators	yes		see
Laser-plasma injector numerical optimization studies	April to August 2022	Kevin Cassou	ALEA	Accelerators	yes		see
Multi-zone plasma target development	April to August 2022	Kevin Cassou	ALEA	Accelerators	yes		see
Study and test of an in-situ plasma conditioning technique to improve the surface properties of superconducting accelerator cavities for Spiral2	From March 2022 / 5 or 6 months	David Longuevergne	MAVERICS	Accelerators	yes	Study of "in-situ" plasma conditioning to improve the surface properties of accelerator components	see
Numerical simulation of the HPR treatment on the superconducting accelerating cavities for PIP-II project	From March 2002 4 – 5 months	Patricia Duchesne	RF service	Accelerators	no		see

Simulation of the behaviour superconducting accelerating cavity (Harware, VHDL, Matlab/Simulink)	6 month / 2022 From March	Christophe Joly	RF service	Accelerators	yes	Optimization of the Low level RF systems	see
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Segmentation of auto-fluorescence images using Deep Learning for human brain tumor classification Closed	5 or 6 months (2022)	Françoise Bouvet	Develop. Group	Engineering	Yes, subject to available funding		see

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Construction and classification of compactified spaces	Accordingly to the M2 program	Grégory Moreau	Particle physics group	Theory	yes		see

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Gamma-Ray Burst Polarimetry with a CubeSat mission	Minimum 2-3 months	Vincent Tatischeff	AC	A2C	yes	same title	see
Electronic and heat transport properties of low dimensional disordered systems	1st semester of 2022	Shamashis Sengupta & Claire Marrache-Kikuchi	ASSD	A2C	yes	same title	see
Development and calibration of cryogenic detectors for solar Axion research (IAXO project)	3 to 5 months (2022)	Stefanos Marnieros	ASSD	A2C	yes	same title	see
All-sky search for unmodeled gravitational waves for LIGO, Virgo and KAGRA detectors	> 3 months	Florent Robinet	Gravitational waves	A2C	yes	same title	see
Improvement of Gravitational-Wave detectors using quantum optics	> 3 months (2022)	Nicolas Leroy	Gravitational waves	A2C	yes	Quantum-noise reduction of gravitational-wave detectors	see

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Coordination of management, administrative and financial actions of European projects in the framework of their starting periods	From april 1st 2022, between 4-5 months, depending training needs of the master	Souleymane Kamara /Nathalie Chérel	STIRI	Service support attached to lab Management	non		see