

(more information by clicking on the PhD subject)

N° Réf.	PhD subject	Keywords	ED	Thesis director
38372	<a href="#">Search for the neutrinoless double beta with the SuperNEMO demonstrator</a>	Particle physics, Neutrino, Majorana neutrino, Double beta decay	PHENIICS	SIMARD Laurent
38380	Study of Vector Boson Scattering processes with the ATLAS detector	Particle Physics, LHC, ATLAS, Vector boson scattering, Calorimetry	PHENIICS	MORANGE Nicolas
38795	<a href="#">The DeLLight experiment: Search for optical nonlinearity of the vacuum with intense laser pulses</a>	Non linear QED vacuum in intense field, Interferometric metrology with femtosecond laser pulses, Modificatio of the speed of light in vacuum with intense lasers , Deflection of light by light	PHENIICS	SARAZIN Xavier
38887	<a href="#">Study of tau decays with the Belle II detector</a>	tau lepton, Belle 2	PHENIICS	MARTENS Aurélien
38892	Lepton universality test with the Bs à $\Phi$ ll decay and participation to the understanding of the Run3 data from the electron point of view within the LHCb experiment	LHCb, electrons, LHC, FCNC, Flavours physics	PHENIICS	SCHUNE Marie-Hélène

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38944	<a href="#">New precision measurements of electroweak parameters and proton structure functions with the ATLAS detector at the LHC</a>	Electroweak parameters, Proton structure, ATLAS, LHC	PHENIICS	ZHANG Zhiqing
38956	<a href="#">Search for H(bb)H(gammagamma) with the ATLAS experiment and the Run 3 of LHC</a>	Higgs, photon	PHENIICS	ESCALIER Marc
38986	<a href="#">Millikelvin technologies for neutrino physics and quantum computing</a>	Neutrino physics, Quantum computing, Low radioactivity, Low temperatures	PHENIICS	GIULIANI Andrea
41449	<a href="#">Tests of lepton flavor universality and upgrade of electromagnetic calorimeter of the LHCb experiment at CERN</a>	Particle physics, Calorimeter	PHENIICS	ROBBE Patrick
42963	<a href="#">Modern amplitude methods for classical and quantum physics</a>	Particle physics, S-matrix theory, On-shell amplitudes, black holes	PHENIICS	FALKOWSKI Adam

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N° Réf.	Sujet de thèse	Mots clés	ED	Directeur de thèse
38110	<a href="#">High-resolution X-ray spectroscopy of superheavy nuclei</a>	superheavy nuclei, spectroscopy	PHENIICS	LOPEZ-MARTENS Araceli
				HAUSCHILD Karl
38353	<a href="#">Probing neutron-proton pairing in intermediate mass nuclei</a>	nuclear structure, direct reactions, pairing, deformation, radioactive beams, semi-conductor detectors	PHENIICS	ASSIE Marlène
				BLUMENFELD Yorick
38486	<a href="#">Search for a new mode of radioactivity: the double alpha decay</a>	Nuclear structure, Radioactivity	PHENIICS	KHAN Elias
				THEISEN Christophe
38544	<a href="#">Study of neutron/gamma competition in the de-excitation process of fission fragments</a>	gamma spectroscopy, neutron spectroscopy, GEANT4 simulation, fission process	PHENIICS	LEBOIS Matthieu
				VERNEY David
38788	<a href="#">Evolution of the nuclear structure in exotic nuclei</a>	spectroscopy, beta decay	PHENIICS	LOZEVA Radomira
38934	<a href="#">Laser spectroscopy in a supersonic jet for nuclear-physics research</a>	nuclear physics, laser spectroscopy, atomic physics, supersonic gas flow	PHENIICS	FRANCHOO Serge
38974	<a href="#">Nuclear low-Energy Collisions Theory for Antiprotonic Research</a>	theoretical physics, nuclear physics, reactions, annihilation, exotic nuclei	PHENIICS	HUPIN Guillaume
				VAN KOLCK Ubirajara

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39030	<a href="#">Structure beyond the neutron threshold in the nuclei of interest for the r process produced at ALTO</a>	nuclear structure, beta decay, neutron detection, r process	PHENIICS	VERNEY David
39031	<a href="#">Study of the 6-neutron system</a>	Multineutrons, Light neutron-rich nuclei, cluster knockout reactions, missing mass	PHENIICS	BEAUMEL Didier ASSIE Marlène
39109	<a href="#">Nuclear structure in the vicinity of shell closures. Transition probabilities and nuclear moments.</a>	nuclear structure, transition probabilities, nuclear moments	PHENIICS	GEORGIEV Georgi

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N° Réf.	Sujet de thèse	Mots clés	ED	Directeur de thèse
38552	<a href="#">Microstructural inhomogeneity in irradiated fcc alloys: a study by atomic-scale simulations and advanced characterization techniques</a>	molecular dynamics, defects, microscopy, scattering	PHENIICS	DEBELLE Aurélien

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N° Réf.	Sujet de thèse	Mots clés	ED	Directeur de thèse
39073	<a href="#">Chemistry of protactinium in aqueous solution: complexation and redox properties</a>	Protactinium, Actinide, Solution chemistry, Complexation	PHENIICS	LE NAOUR Claire
39191	<a href="#">Study of a pyrochemical treatment route for chloride salts at high temperature</a>	Molten salt reactor, Electrochemistry, Reductive extraction, Thorium, Chloride salts, Analytical chemistry	PHENIICS	DELPECH Sylvie CANNES Céline

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N° Réf.	Sujet de thèse	Mots clés	ED	Directeur de thèse
38374	<a href="#">From Gd-155 target to Tb-155 production, a radionuclide for health</a>	radionuclide for health, isotopic separation, cross section, thin layer characterization, nuclear imaging, medical physics	PHENIICS	BACRI Charles-Olivier
41751	<a href="#">Study of lanthanide ion complexation with hydroxamic acid ligands for nuclear medicine applications</a>	radionuclides, lanthanides, terbium, hydroxamic acid ligand, complexation, thermodynamic parameters	PHENIICS	SLADKOV Vladimir

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N° Réf.	Sujet de thèse	Mots clés	ED	Directeur de thèse
38435	<a href="#">Implementation of a monochromatic scheme for the direct s-channel Higgs production at fcc-ee</a>	monochromatization, optics design, beam-beam, beam dynamics simulation, beamstrahlung	PHENIICS	FAUS-GOLFE Angeles ZIMMERMANN Frank
39182	<a href="#">Study of 'in-situ' plasma conditioning to improve the surface properties of accelerator components</a>	superconductivity, radiofrequency, plasma, material	PHENIICS	LONGUEVERGNE David SATTONNAY Gaël
39408	<a href="#">Optimization, design, realization of a Fabry-Perot stacking cavity for inverse Compton scattering operated in burst mode</a>	Fabry-Perot cavity , Compton interaction, burst mode	PHENIICS	MARTENS Aurélien
39660	<a href="#">Optics design of a transverse monochromatic scheme for the direct s-channel Higgs production at FCC-ee</a>	beam optics, monochromatization, beam dynamics, colliders	PHENIICS	FAUS-GOLFE Angeles
39842	<a href="#">Additive manufacturing, instrumentation and commissioning of a particle accelerator</a>	Additive manufacturing, instrumentation, particle accelerator, beam diagnostics, emittance, beam commissioning	PHENIICS	DELERUE Nicolas
40033	<a href="#">Performance limitations due to beam-beam interactions and wakefields in high energy lepton colliders</a>	beam-beam interaction, Wakefields, lepton colliders	PHENIICS	FAUS-GOLFE Angeles



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42643	<a href="#">Optimisation of laser driver control operation for high beam quality laser-plasma accelerator.</a>	accelerator, laser wakefield, plasma, instrumentation, laser , optic	PHENIICS	ZOMER Fabian
43192	<a href="#">New getter materials for UHV applications in high energy particle accelerators</a>	NEG, dynamic vacuum, secondary electrons, FCC	PHENIICS	SATTONNAY Gaël
43329	<a href="#">Lattice design and beam optics optimization of the PERLE facility</a>	Beam physics, acceleration, Magnets, Energy Recovery LINAC, PERLE	PHENIICS	STOCCHI Achille

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N° Réf.	Sujet de thèse	Mots clés	ED	Directeur de thèse
38840	<a href="#">Superfluid fraction of the inner crust of neutron stars</a>	neutron stars, superfluidity	PHENIICS	URBAN Michael
39002	<a href="#">Astrophysics via mass spectrometry of exotic nuclides at CERN and ALTO</a>	astrophysics, nuclear structure, ion traps, exotic nuclei, precision measurements	PHENIICS	LUNNEY David
39029	<a href="#">Studies of beams transport, preparation and mass measurement of low energy radioactive ions beam produced by photofission at ALTO</a>	nuclear physics, Accelerator physics, instrumentation, ion traps, low energy radioactive beams	PHENIICS	MINAYA RAMIREZ Enrique
				PERROT Luc
39751	<a href="#">Effets de la collision entre un ion lourd et une nanoparticule isolée</a>	nanoparticule, ion lourd	PHENIICS	CHABOT Marin

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38596	<a href="#">Gamma-Ray Burst Polarimetry with a CubeSat mission</a>	astroparticles, gamma-ray astronomy, gamma-ray burst, space mission, CubeSat, polarimetry	PHENIICS	TATISCHEFF Vincent
				HAMADACHE Clarisse
38759/ 38761	<a href="#">High-energy gamma observation by CTA: data analysis and study of PeVatrons</a>	High-energy gamma rays, Cherenkov Telescope Array, Cosmic accelerators, Data analysis, Multi-wavelength analysis, PeVatrons	PHENIICS	SUOMIJARVI Tiina
				HULL Giulia
38963	<a href="#">Follow-up of LIGO/Virgo gravitational wave alerts by the GRANDMA network</a>	mutli-messengers astronomy, binary neutron star mergers, kilonova	PHENIICS	HELLO Patrice
38991	<a href="#">Searching for neutron-star mergers in LIGO-Virgo-KAGRA's 2023 data</a>	gravitational waves, neutron stars	PHENIICS	DAL CANTON Tito
				LEROY Nicolas
38993	<a href="#">All-sky search for unmodeled gravitational waves for LIGO, Virgo and KAGRA detectors</a>	gravitational wave, Virgo, data analysis	PHENIICS	ROBINET Florent
				LEROY Nicolas
38998	<a href="#">Quantum-noise reduction of gravitational-wave detectors</a>	squeezing, gravitational wave, quantum optics, Virgo	PHENIICS	LEROY Nicolas

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39128	<a href="#">Development of novel cryogenic detectors for coherent elastic nucleus-neutrino scattering and direct dark matter search</a>	Coherent Elastic Nucleus-Neutrino Scattering, Dark Matter, Germanium cryogenic detectors	PHENIICS	MARNIEROS Stefanos
39052	<a href="#">Estimation of photometric redshifts in the Rubin/LSST galaxy survey and application to dark energy parameter measurement with large scale structures</a>	Cosmology, Dark energy, Redshift, Photometry, Large scale structure, Galaxies	PHENIICS	DAGORET-CAMPAGNE Sylvie MONIEZ Marc

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38752	<a href="#">Double charm production in hadron collisions with ALICE at the LHC</a>	Quark Gluon Plasma, Heavy-ion collision, Charm, LHC, ALICE	PHENIICS	CONESA DEL VALLE Zaida ESPAGNON Bruno
38976	<a href="#">The partonic structure of the nucleon</a>	Parton distributions, Deeply virtual Compton scattering, Double deeply virtual Compton scattering	PHENIICS	VOUTIER Eric HOBALLAH Mostafa
38982	<a href="#">Study of the Quarks and Gluons Structure of the Helium Nucleus at Jefferson Lab (USA)</a>	QCD, quarks and gluons	PHENIICS	DUPRE Raphael

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N° Réf.	Sujet de thèse	Mots clés	ED	Directeur de thèse
38953	<a href="#">Tensor theory and data science</a>	Tensor models, artificial intelligence, Random Matrices	PIF	RIVASSEAU Vincent
38962	<a href="#">Thermal and magnetotransport properties across a 2D superconductor insulator transition</a>	heat transport, electronic transport, disordered systems, quantum phase transition, many-body localization, superconductivity	PIF	MARRACHE Claire
				SENGUPTA Shamashis
39965	<a href="#">development of a multizone plasma cell</a>	laser, plasma, acceleration , relativistic beams, ultrafast optics, PALLAS	Ondes & Matière	KAZAMIAS Sophie
40832	<a href="#">Segmentation of fluorescence images using deep learning for human brain tumor classification</a>	Machine Learning, Deep Learning, Image Processing, brain tumors, fluorescence, histology	PIF	ABI HAIDAR Darine
43936	<a href="#">Experimental and theoretical approaches of the effects of irradiation on cell populations</a>	mathematical modeling, cancer, cell culture, spatially-structured irradiation, image analysis, statistical physics	PIF	BADOUAL Mathilde