

(more information by clicking on the PhD subject)

N° Ref.	PhD subject	Keywords	ED	Thesis director
45061	Time resolution of a highly-granular electromagnetic calorimeter and study of electroweak processes at a Higgs factory	Usine de Higgs, Physique électrofaible, Résolution temporelle, Reconstruction d'évènements, Intelligence artificielle	PHENIICS	POESCHL Roman
50746	Experimental study of the strong interaction with the ALERT and CLAS12 spectrometers at Jefferson Lab	QCD, Particle physics, Nuclear physics	PHENIICS	DUPRE Raphael
51663	Study of vector boson scattering with the ATLAS detector using Run 3 LHC data	Particle physics, Standard Model, Vector boson scattering, Calorimetry, LHC, Data analysis	PHENIICS	MORANGE Nicolas
51748	Search for the neutrinoless double beta decay with the SuperNEMO demonstrator	neutrinos, Majorana, leptogenesis, mass	PHENIICS	SIMARD Laurent
51771	The future electron-ion collider	Physics, Particle physics, Hadron physics, Nuclear physics, Accelerators, Colliders	PHENIICS	MUNOZ CAMACHO Carlos
51790	Charmonium production in heavy-ion collisions with A Large Ion Collide Experiment (ALICE) at the LHC	Quark-gluon plasma, ultra-relativistic heavy-ion collisions, LHC, ALICE, Charmonia	PHENIICS	HADJIDAKIS Cynthia

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51889	<u>Precision cross section measurement of the dipion process and its contribution to the muon anomalous magnetic moment and to (M/Z^2) with the Belle II detector</u> α	Belle II , SuperKEKB, electron-positron collisions, muon anomalous magnetic moment	PHENIICS	ZHANG Zhiqing
52030	<u>Exploring Neutrinoless Double Beta Decay: Development and Operation of CUPID's Cutting-Edge Scintillating Bolometers</u>	Neutrino physics, Rare nuclear decays, Low temperature particle detectors	PHENIICS	GIULIANI Andrea LOAIZA Pia
52045	<u>CP symmetry violation in the leptonic sector with DUNE: simulation and data reconstruction at low energy in liquid argon</u>	neutrino, CP symmetry, DUNE, PMNS matrix, data analysis, instrumentation	PHENIICS	HOUDY Thibaut
52157	<u>Measurement of the inclusive $B_s \rightarrow D_s X$ decay with Belle II detector</u>	Particle physics, QCD, Hadron physics, Standard Model	PHENIICS	KOU Emi MIZUK Roman
52346	<u>Study of Higgs boson pair production in high Lorentz boost events with the ATLAS detector at the LHC</u>	CERN, LHC, Higgs Boson, HH, Machine learning, Particle Physics	PHENIICS	CADAMURO Luca
52353	<u>Study of Bc rare decays</u>	Bc semileptonic decays, Bc annihilation decays	PHENIICS	BARSUK Sergey

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52377	Associated production of charmonium with the LHCb experiment	charmonium, QCD	PHENIICS	BARSUK Sergey
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53278	Impact of temporality on uncertainties associated with pu multi-recycling strategies with the class cycle simulation code	nuclear energy, fuel cycle, simulation, uncertainties	PHENIICS	ERNOULT Marc

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N° Ref.	PhD subject	Keywords	ED	Thesis director
51453	Lifetimes of excited states in neutron-rich copper isotopes	exotic nuclei, gamma spectroscopy, structure nuclear, cuivre, beta decay	PHENIICS	FRANCHOO Serge
52038	Search for the tetra-neutron Isobaric Analog State in 4H : The case for the 6He(p,3He) reaction	structure nucléaire, noyaux neutres, réactions directes, détection particules-gamma	PHENIICS	ASSIE Marlène
				BEAUMEL Didier
52078	Studies of pion-Carbon interactions with HADES as a benchmark for heavy-ion and neutrino-nucleus reaction modeling.	hadronic physics, pion-nucleus interactions, baryonic resonances	PHENIICS	RAMSTEIN Béatrice
52082	Heavy and super heavy nuclei, commissioning of SIRIUS@S3 and upgrade of the SIRIUS detector	nuclear structure, heavy nuclei, alpha, gamma, electron spectroscopy, X-ray spectroscopy	PHENIICS	LOPEZ-MARTENS Araceli
				HAUSCHILD Karl
52125	Pseudospin symmetry and shell structure evolution in the 78Ni region: the quest for core-breaking states in magic 80Zn	Nuclear Structure, Gamma spectroscopy, Nuclear Shell model, fission	PHENIICS	LEBOIS Matthieu
				VERNEY David
52235	Nuclear structure of heavy nuclei around Z-104 through prompt gamma-ray spectroscopy: exploring the island of stability of superheavy elements	Nuclear structure, Heavy nuclei, Super heavy nuclei, Fission, alpha, gamma	PHENIICS	KORICHI Amel

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52248	Laser spectroscopy of radionuclides and development of experimental methods using the S3 Low Energy Branch	Laser spectroscopy, Nuclear structure, Low-energy instrumentation, Ion trap	PHENIICS	MANEA Vladimir
52248	Nuclear structure of exotic nuclei around ^{132}Sn and ^{208}Pb	nuclear structure, spectroscopy, lifetimes, r process	PHENIICS	LOZEVA Radomira ASTIER Alain

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N° Ref.	PhD subject	Keywords	ED	Thesis director
52003	Development, commissioning and operation of optical fabry-perot resonators delivering several hundreds of kw in particle accelerators	laser, résonateur optique, Fabry-Perot, Accélérateurs, sources X	PHENIICS	MARTENS Aurélien
				NUTARELLI Danièle
51784	Optimizing Laser-Plasma Accelerators through Machine Learning	laser-plasma, machine learning, accelerators, plasma, high intensity laser	PHENIICS	ZOMER Fabian
				CASSOU Kevin
51793	Développement de composants plasma laser pour pour les accélérateurs pour des opérations à taux de répétition élevés	Acceleration laser-plasma , plasma , accélérateur , dynamique des fluides , optique, micro mechanics	PHENIICS	ZOMER Fabian
				CASSOU Kevin
52709	Fast luminosity monitoring and beam loss analysis at SuperKEKB	fast beam instrumentation, diamond sensors, luminosity, beam dynamics		BAMBADE Philip

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51887	Description of Neutrino Oscillations Emitted from Stellar Objects Using Quantum Computers	Theoretical physics, quantum computing, neutrinos, complex quantum problems, quantum information theory, Many-Body problem	PHENIICS	LACROIX Denis

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51818	Measurement of the equation of state of dark energy from type Ia supernovae in the ZTF-II and LSST surveys	cosmology, dark energy, Hubble diagram, supernovae	PHENIICS	NEVEU Jérémy
				MONIEZ Marc
51973	Chasing gamma rays and neutrinos at EeV energies with the Pierre Auger Observatory	ultra-high energy cosmic rays, photons and neutrinos, sources and propagation of cosmic rays, extensive air showers, super heavy dark matter, cosmic strings	PHENIICS	DELIGNY Olivier
				GHIA Piera Luisa
52197	Hunting for new physics with Simons Observatory first cosmological data	Cosmology, CMB	PHENIICS	LOUIS Thibaut
				HENROT-VERSILLE Sophie
52730	Searching for gravitational-wave and gamma-ray transients from merging compact objects	gravitational waves, gamma ray bursts, neutron stars, black holes, Virgo, LIGO	PHENIICS	DAL CANTON Tito
				LEROY Nicolas

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N° Ref.	PhD subject	Keywords	ED	Thesis director
51974	Thermal and magnetotransport properties across a superconductor-insulator transition	Superconductivity, Disordered systems, Thermal transport, Thermalization of quantum systems, Quantum Phase Transition	PIF 564	MARRACHE Claire SENGUPTA Shamashis

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52780	Dark matter detection based on innovative cryogenic devices for the TESSERACT experiment	Ge cryogenic detectors, Dark matter	PHENIICS	MARNIEROS Stefanos