Intake 2019 / 2021: Master Thesis

PATH	Surname	Name	Master Thesis title, supervisors & university
3	Abushawish	Mojahed Sameer Moh'd	*Deep learning techniques for accurate dose prediction for Intra-Operative Radiation Therapy (IORT)* José M. Udías, Paula Ibáñez, Joaquín López Herraiz (UCM) University Complutense Madrid DEFENSE: September 2021
2	Casuga	Carlisle Aurabelle Marquez	*Monte Carlo event simulation of neutrino-nucleus interaction* Raúl Jimenez, José M Udias (UCM) University Complutense Madrid DEFENSE: September 2021
2	Conde Villatoro	Daniel Eduardo	*Monte Carlo simulations of the AIDA detector* Jose Antonio Victoria, Alejandro Algora (IFIC-Valencia), Verónica Sanz (UCM) University Complutense Madrid DEFENSE: September 2021
1	Delgado Alvarez	Jessica Carolina	Design and characterization of the neutron-gamma detection module of the DRAGON project Sandra Moretto, Felix Pino (UniPD) University of Padova DEFENSE: September 2021
3	Galapon	Arthur Jr. Villanueva	*Dose Estimation for Intraoperative Radiation Therapy using UNET and HD-UNET* Paula Ibáñez, J.M. Udias (UCM), University Complutense Madrid DEFENSE: September 2021
2	Gonzalez-Miret Zaragoza	Luis	*Construction of Effective Potentials for Condensed Matter Systems via Bayesian Statistical Analysis and Some Applications to Nuclear Physics* Fabio Finocchi, Martino Trassinelli (Paris), A. Prados (US) University of Sevilla (& Paris) DEFENSE: September 2021
1	Karagianni	Christina	*Analytic stability criteria for edge harmonic oscillations and comparison to ASDEX Upgrade data* Eleonora Viezzer (US), Lidia Piron (UniPD) University of Padova (& Sevilla) DEFENSE: September 2021
2	Kumar	Yash	*Strongly coupled matter in a cosmological context and neutron star mergers* David Mateos (UB) University of Barcelona TO BE DEFENDED IN: December 2021
3	Kurmanova	Alma	*Monte Carlo simulation and experimental verication of SiC detector prototype properties* Pablo Cirrone, Giada Petringa (INFN-LNS, UNICT), Carlos Guerrero (US) University of Sevilla (& Catania) DEFENSE: September 2021

1	Langelund Carrera	Samuel José	*Position correlation by beta-plastic scintillator using a series of SiPM readouts* Dr. Zhang and Dr. Mengoni University of Padova TO BE DEFENDED IN: December 2021
3	Matamoros Ortega	Andrea Nicole	*DNA damage study with Geant4-DNA Monte Carlo simulations and comparison with experimental data from the NEPTUNE project* Pablo Cirrone, Serena Fattori (INFN-LNS) , M. A. Cortés (US) University of Sevilla (& Catania) DEFENSE: September 2021
1	Mozumdar	Nikhil	*Study of the D(p,g)3He angular distribution at LUNA* Antonio Caciolli (UniPD) , Francesca Cavanna (INFN, Torino) University of Padova DEFENSE: September 2021
2	Muñoz Mendez	Jesús Eduardo	*Parity violating electron scattering off the nucleon: strangeness content in the proton* Raúl González Jiménez, Óscar Moreno Díaz (UCM) University Complutense de Madrid DEFENSE: September 2021
3	Nerio Aguirre	Amanda Nathali	*Experimental tests of IEM-CSIC scanner prototype for medical imaging with protons* José Antonio Briz, del IEM-CSIC-Madrid University Complutense de Madrid
1	Odusina	Emmanuel Seyi	*Trojan Horse Method application to the quasi-free 2H(7Be,α4He)p reaction induced at 20.4 MeV beam energy* Stefano Romano, Livio Lamia (UniCT) University of Catania DEFENSE: October 2021
1	Pattnaik	Snehankit	*Search of the Omega(2012) with neural network techniques at the LHC with the ALICE experiment* Angela Badala (UniCT) University of Catania DEFENSE: October 2021
3	Phan	Thi Dieu Trang	*Robustness of PET radiomics features in a real clinical application: impact of co-registration with MRI* Giorgio Russo, Alessandro Stefano (UniCT), Antonio Leal Plaza (US) University of Sevilla (& Catania) DEFENSE: September 2021
2	Porchkhidze	Natia	*Radiative capture reaction rates of interest for Big Bang Nucleosynthesis within a three-body model* M. Rodriguez-Gallardo, Jesús Casal (US) University of Sevilla TO BE DEFENDED IN: December 2021
1	Ruiz	Vladimir	*Simulation and tests for the characterization of the response of the detection system for a UAV system* Sandra Moretto, Felix Pino (UniPD) University of Padova DEFENSE: September 2021
1	Selemon	Deborah Oluwakemi	*Machine learning for the interpretation of the main ion charge exchange recombination spectra at the ASDEX Upgrade tokamak* Eleonora Viezzer, Pilar Cano Megías (US), L. Piron (UniPD) University of Padova (& Sevilla) DEFENSE: September 2021

2	Yaghi	Osama	*Radiative capture reaction rates of interest for the rp-process nucleosynthesis within a three-body model* J.A. Lay and J. Casal (US) University of Sevilla DEFENSE: September 2021