

## Intake 2019 / 2021: Master Thesis

PATH	Surname	Name	Master Thesis title, supervisors & university
3	Abushawish	Mojahed Sameer Moh'd	<i>Deep learning approaches on treatment planning methods</i> José M. Udías (UCM), Paula Ibáñez, Joaquín López Herraiz University Complutense Madrid
2	Casuga	Carlisle Aurabelle Marquez	<i>Monte Carlo event generators and the simulation of neutrino-nucleus interaction</i> Raúl Jimenez & José M Udias (UCM) University Complutense Madrid
2	Conde Villatoro	Daniel Eduardo	<i>Monte Carlo simulations of AIDA implantation detector</i> Jose Antonio Victoria y Alejandro Algora (IFIC), Luis Mario Fraile (UCM) University Complutense Madrid
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
3	Galapon	Arthur Jr. Villanueva	<i>Deep Learning approaches to treatment planning and dosimetry of radiotherapy of protons, photons, and electrons</i> J.M. Udias (UCM), Paula Ibáñez, Joaquín López Herraiz University Complutense Madrid
2	Gonzalez Miret Zaragoza	Luis	<i>Nested Sampling for Nuclear Quantum Effects</i> Fabio Finocchi, Martino Trassinelli (Paris), A. Prados (US) Universities of Sevilla-Paris
1	Karagianni	Christina	<i>Analytic stability criteria for edge harmonic oscillations and comparison to ASDEX Upgrade data</i> Eleonora Viezzer (US), Lidia Piron (UniPD) Universities of Padova-Sevilla
2	Kumar	Yash	<i>Strongly coupled matter in a cosmological context and neutron star mergers</i> David Mateos (UB) University of Barcelona
3	Kurmanova	Alma	<i>Detectors development for 2D dosimetry of conventional and laser-accelerated ion beams</i> Pablo Cirrone (INFN-LNS, UNICT), pablo.cirrone@unict.it R Catalano (INFN-LNS), <a href="mailto:catalano@lns.infn.it">catalano@lns.infn.it</a> , Carlos Guerrero (US) Universities of Sevilla - Catania
1	Langelund Carrera	Samuel José	<i>Position correlation by beta-plastic scintillator using a series of SiPM readouts</i> Dr. Zhang and Dr. Mengoni University of Padova
3	Matamoros Ortega	Andrea Nicole	<i>Monte Carlo Modelling of LET and RBE in protontherapy at the nano-dosimetric scale and in presence of 11B radiosensitive isotopes</i> Pablo Cirrone, Giada Petringa (UniCT), M. A. Cortés (US) Universities of Sevilla - Catania

1	Mozumdar	Nikhil	<i>Study of the <math>^{20}\text{Ne}(p,g)^{21}\text{Na}</math> reaction</i> Antonio Caciolli (UniPD) University of Padova
2	Muñoz Mendez	Jesús Eduardo	<i>Parity violating electron scattering: a door to physics beyond the Standard Model</i> Raúl González Jiménez y Óscar Moreno Díaz (UCM) University Complutense de Madrid
3	Nerio Aguirre	Amanda Nathali	<i>Experimental tests of IEM-CSIC scanner prototype for medical imaging with protons</i> José Antonio Briz, del IEM-CSIC-Madrid University Complutense de Madrid
1	Odusina	Emmanuel Seyi	<i>The cosmological lithium problem in view of the recent <math>^7\text{Be}(n,\alpha)^4\text{He}</math> studies</i> Livio Lamia (UniCT) University of Catania
1	Pattnaik	Snehankit	<i>Machine learning aided identification of rare resonances in <math>pp</math> collisions</i> Angela Badala (UniCT) University of Catania
3	Phan	Thi Dieu Trang	<i>PET Radiomics in oncological patients</i> Giorgio Russo (UniCT), Leal Plaza (US) Universities of Sevilla - Catania
2	Porchkhidze	Natia	<i>Radiative capture reaction rates of interest for Big Bang Nucleosynthesis within a three-body model</i> M. Rodriguez-Gallardo y J. Casal (US) University of Sevilla
1	Ruiz	Vladimir	<i>Gamma-Ray and neutron detections system on a dron</i> Sandra Moretto, Felix Pino (UniPD) University of Padova
1	Selemon	Deborah Oluwakemi	<i>Machine learning for the interpretation of the edge main ion charge exchange spectra at the ASDEX Upgrade tokamak</i> Eleonora Viezzer, Pilar Cano Megías (US), L. Piron (UniPD) Universities of Padova - Sevilla
2	Yaghi	Osama	<i>Radiative capture reaction rates of interest for the <math>rp</math>-process nucleosynthesis within a three-body model</i> J.A.Lay y J. Casal (US) University of Sevilla