

8 setembro Quinta-feira			
Anfiteatro 029	Sala 140	Anfiteatro 030	
Matéria Condensada	Física Nuclear	Ensino da Física	
14:30	Theory of the Nonlinear Optical Conductivity/ D J Passos		Distinguished Scientists: From Creativity to Knowledge/ Maria Matilde Ariza Montes
14:45	Bose-Einstein Condensates in Quasi-periodic Lattices: Bosonic Josephson Junction and Multi-mode Dynamics/ H Prates	INVITED: Patricia Gonçalves (Titulo a ser divulgado)	Proteção dos Olhos Contra a Radiação Ultravioleta/ Luis Filipe Pereira Franco Afonso
15:00	Dielectric And Magnetic Properties of Ca3Mn2O7 Thin Films/ Bruna Silva		Holographic Optical Instruments Production and Holographic Interferometry as Contents for Laboratory Practices for Undergraduate Students in Physics and Physics Teaching/ José Caiongo Chibaca
15:15	Structural and Magnetic Transformations Induced by Mn Doping in Ca- and Sr- substituted BiFeO3/ M Das		Programa de Simulação de Queda em Fluidos/ Rui J. Agostinho e Ana Tavares Sousa
15:30	Shape Transition of Sedimenting Confined Capsules/ Danilo Silva	Analysis of Gan Core-Shell P-N Junction Nanowire Radiation Detectors Irrac	Spins Primeiro, Para Não Ficar Para Trás/ Vítor Brás de Sequeira Amaral
15:45	The role of Structural Distortions in Triggering the Metal to Insulator Transition in NdNiO3/ M M Gomes	Cr-doped β -Ga2O3: Luminescence Activation by Irradiation-Induced Defects	Capacidades Térmicas: Aspectos Teóricos e Didáticos/ Joaquim Manuel da Silva Anacleto
16:00	Density Functional Theory and Perturbed Angular Correlation Study of the AMnGe2O6 (A=Be, Mg, Ca, Sr) Clinopyroxene Series/ R Moreira	INVITED: Renân Pereira (Titulo a ser divulgado)	Calor e Trabalho: Equívocos e Soluções/ Joaquim Manuel da Silva Anacleto
16:15	Percolation Based Simulation to Predict Caking Kinetics of Polydispersed Amorphous Powders/ V Braz		A Ciência por Detrás dum Pêndulo: indo além do Pêndulo Físico / Horácio Fernandes

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Óptica e Lasers	Física Médica e para a Ciência da Vida	Geofísica, Oceanografia e Meteorologia	
17:30	Optical Tweezers Development as a Tool for Biomedical Diagnosis/J. Freitas Oliveira		Climate in the Eastern Boundary of the Atlantic/Pedro Manuel Alberto De Miranda
17:45	Optical Properties of One-Dimensional Periodic Structures: From Photonic Crystals to Hyperbolic Metamaterials/Bernardo Dias	INVITED: Membrane biophysics: a meeting point for new therapies / Claudia Nunes	Potencial Migração da Adequação Bioclimática de Diferentes Castas de Uva Portuguesas na Europa Devido às Alterações Climáticas/Filipe Jorge Santos Ferreira Adão
18:00	Optical Fiber Sensor For Measuring Water Vapour Sorption Hysteresis of Cement Paste/P. M. Da Silva		Assessing the Future Wind Energy Potential Along the Portuguese Coast Using Cmp6 Model Ensemble and WRT High Resolution Simulations/ André Filipe Monteiro Claro
18:15	Development of a Biogenic Amine Optic Sensor Using Rosamine in a Cellulose Membrane /Simão Seixas	Revestimentos funcionais para aplicações óticas e oftálmicas / Silvana Guedes	Biases in the Variability of the Vertically Averaged Atmospheric Circulation Simulated by Cmp6 Models/ José Manuel Castanheira
18:30	Development of an Optical Magnetic Field Sensor Based on Surface Plasmon Resonance and Magnetostriction/ João P. M. Carvalho	Surface functionalization of spin-vortex nano-discs for magneto-mechanically induced damage applications / Ricardo Magalhaes	Lightning Modelling In Numerical Weather Prediction /Rui Salgado
18:45	Development of Optical Gas Sensors Based on Porous Materials/ Mariana A. F. De Melo E Sousa	Hemodinâmica Na Bifurcação Da Artéria Aorta Abdominal Com Um Modelo De Duas Fases / Daniela O. Trigo	Modelling Atmospheric Conditions Leading To Large Fires In Portugal/Cátia Isabel Nunes Campos
19:00	Nanostructures Towards Near Infrared Sensing/ Paulo S. S. Dos Santos	Wound Opening In A Thin Incompressible Viscoelastic Tissue / G. M. Carvalho	Measurements Of Evaporation In Mediterranean And Antarctica Lakes/Miguel Joaquim Fernandes Potes
19:15	Mineral Identification Using Laser Induced Breakdown Spectroscopy Mapping / Diana Capela	Volumetric Interferometric Lattice Light-Sheet Imaging / Simão Coelho	Dinamic And Diabatic Processes In Extratropical Cy-Clones In The Atlantic Region/ Margarida L. R. Liberato
19:30			Observed Geomagnetic Field Anomalies and Possible Consequences / Maria Rosa Duque

Sexta-feira, 9 setembro			
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Óptica e Lasers	Física Médica e para a Ciência da Vida	Ensino da Física	
14:30	Development and Characterization of an Ultra-Broadband 7 Fs Laser Oscillator For Multicolor Nonlinear Imaging / Tiago E. C. Magalhães		Adição de Elementos Multimédia em Applets de Física Para Alunos Com Dislexia/ Léo Rodrigues Macena Dos Santos
14:45	Temporal Characterization Of Broadband Femtosecond Laser Pulses By Surface Third-Harmonic Dispersion Scan With Ptychographic Retrieval/Tiago Gomes	INVITED: Multifunctional lipid nanoparticles as a promising therapeutic strategy for breast cancer: Andreia Granja	Astronomy Projects at School: Interdisciplinarity In Science Teaching/ Álvaro Manuel Folhas Ferreira
15:00	Thz Time-Domain Spectroscopy Using A Femtosecond Laser-Plasma Source/Ana Oliveira E Silva		Projeto Viab-Fis: Uma Proposta Prático-Laboratorial Inclusiva para o Ensino Secundário/ Natália Alves Machado
15:15	Taming Light For Novel Computing Machines/Duarte Silva	Resistive-Switching Device Based On A Copper Solution For Artificial Synapses / Andreia Silva,	Physics Activities Developed in the Project Fisastee/ José António Araújo Gonçalves
15:30	Using Fluids Of Light In Photorefractive Media To Create Turbulent States/Tiago D. Ferreira	Overview Of Mpgd Based Full-Field Imaging Spectrometers – Current Status, Applications, And Future Directions / P. M. S. Carvalho	Atividades Experimentais Virtuais no Ensino Experimental da Física/ Marcelo José Rodrigues
15:45	Modelling the Final Electron Spectra After Radiation Reaction From Intense Laser Scattering/Oscar Amaro	Simulação Do Transporte Da Lipoproteína De Baixa Densidade Na Artéria Aorta Abdominal / Eliana M. Seixas	Como Organizar o Ensino Experimental de Física na Pós-Pandemia?/ José Jorge Da Silva Teixeira
16:00	Ultrafast Optical Pump-Probe Spectroscopy System for the Study of Photophysical Processes in Nanomaterials/Tânia M. Ribeiro	Applying Machine Learning Techniques For Quality Evaluation Of Complex Radiotherapy Treatments / B. Mendes	Capoeiras Jogam Física?! Um Exemplo da Introdução da Cultura de Matriz Africana na Física Escolar/ Wagner De Souza
16:15	Ultrafast Magnetization Dynamics in Cofeb-Based Multilayer Thin Films Down to the Few-Cycle Regime/Ana S. Silva	MCDHF Calculations Of Emission Rates In Radionuclides With Biomedical Interest / José M. P. Marques	

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Astrofísica, Cosmologia, Física de Altas Energias	Física dos Plasmas	Energia e Física Aplicada	
17:30	Parametric Design of a Cross Dispersed Echelle Spectrograph With Off-The-Shelf Components/ Nuno Cabecinhas Gonçalves	INVITED: Plasmas Contendo CO2: das Energias Renováveis às Atmosferas Planetárias/Carlos Daniel Pintassilgo	Anode-Less Secondary Lithium Battery/ Manuela Carvalho Baptista
17:45	Stellar Characterization for the ARIEL Space Mission/ Andreas Silva Neitzel		Capacitive Effect in Rechargeable Sodium Seawater/ João Ferreira
18:00	Deep Learning in Stellar Detection and Photometry/ Miguel Costa e Silva	INVITED: Energia a fusão nuclear com campos magnéticos 3D: tokamaks vs stellarators / Rogério Jorge	Energy Harvesting and Storage Textile-Based Device/ Rui Costa
18:15	The Gravity Experiment and the 2020 Physics Nobel Prize/ Paulo Valente Garcia		Improving Hematite Performance for Green Hydrogen/ João Freitas
18:30	Gravity: The Dark Side of the Force/ Cláudio Vieira Gomes	Simulating Fast Particle Confinement for New Stellarator Configurations/ Clara Cottet	Magnetic Tunnel Junctions Embeded with Paramagnetic Centers for Energy Harvesting/ Maria Gracio
18:45	Large Scale Atomic Structure Calculations in Kilonovae Modeling/ Jorge Almeida Sampaio	Plasma Physics Education Using ZPIC/ Miguel Pardal	Increase the Performance of the Thermoelectric Generator Thought Printed Collectors/ Ana Pires
19:00	Pentaquarks in a Bethe Salpeter Approach/ Luis Torres Rojas	Modelling a Hollow Cathode Discharge for Several Noble Gases/ Eduardo Calvo	Energy Harvesting Combining Thermomagnetic Materials and Triboelectric Nanogenerators/ Rita Bugalhão
19:15	Heavy Baryon Spectroscopy in a Quark-Diquark Approach/ André Torcato		Magsense/ Gabriel Dinis
19:30	Going to the Light-Front with Contour Deformations/ Eduardo Bento Ferreira		Correntes Geomagneticamente Induzidas Agregam Indústria E Ciência / Rute Rodrigues Santos