

**MAP-fis Conference 2015**  
**June 26, 2015, Auditório da Escola de Ciências, Campus de Gualtar**  
**Universidade do Minho**

Opening			
09:00			
09:15	A1	Sandra Filipa Henriques Correia	SCALE-UP THE COLLECTION AREA OF LUMINESCENT SOLAR CONCENTRATORS TOWARDS METER-LENGTH FLEXIBLE WAVEGUIDING PHOTOVOLTAICS
09:30	A2	Alexandre Manuel Pedroso Botas	Influence of the surface type on the light emission of crystalline silicon nanoparticles
09:45	A3	Rita Rodrigues	MAGNETIC LIPOSOMES BASED ON NICKEL FERRITE NANOPARTICLES
10:00	A4	Catarina José Loureiro da Silva Dias	Ag-BASED RESISTIVE SWITCHING NANOSTRUCTURES
10:15	A5	Anselmo Miguel Magalhães Marques	Superconductivity in Graphite Intercalation Compounds
10:30	A6	Hugo Gonçalves	UNUSUAL PHOTONIC PROPERTIES OF DOPED NANOSTRUCTURED POLYMERIC FIBERS
Coffee Break			
11:15	B1	Ricardo Melo André	Multiplexing focused ion beam milled Fabry-Perot cavities for temperature and refractive index sensing
11:30	B2	Ana Rita da Silva Rodrigues Ribeiro	OPTICAL FIBER TWEEZERS
11:45	B3	Miguel Noronha da Canhota	Self-diffraction and transient-grating dispersion-scan and their application to the measurement of sub 4 femtosecond laser pulses
12:00	B4	Sílvia Maria Gouveia Rodrigues	Modelling and simulation of nonlinear optical phenomena in microstructured optical fibres
Lunch and Posters			
15:15	C1	Hamid Hosseiny	GPU-accelerated optical coherence tomography data processing and visualization for microsurgical applications
15:30	C2	Vânia Patrícia Castro Teixeira Freitas	EU3+-BASED BRIDGED SILSESQUOXANES FOR TRANSPARENT LUMINESCENT SOLAR CONCENTRATORS
15:45	C3	Juan Pedro Araque Espinosa	Search for new heavy vector-like quarks in the ATLAS experiment at the LHC
16:00	C4	André Gomes da Costa Guerra	ON A SMALL SATELLITE TO INTEGRATE MULTIPLE CAPABILITIES FOR OCEAN MONITORING
Coffee Break			
16:45	D1	Joao Dias Caetano Silva	OPE for All Helicity Amplitudes
17:00	D2	Helgi Freyr Rúnarsson	Kerr black holes with self-interacting scalar hair
17:15	D3	Flávio Luis Portas Pinheiro	The Universality of Peer-Influence in Social Networks

Poster Session			
14:00:15:15	P1	Rui Miguel Abreu Vilarinho da Silva	ENHANCING MAGNETOELECTRICITY IN TbMnO <sub>3</sub> & DyMnO <sub>3</sub> BY Fe <sup>3+</sup> SUBSTITUTION
	P2	Filipe Oliveira	Multi-stacks of epitaxial GeSn self-assembled dots in Si: Structural analysis
	P3	Mengjie Wang	Boundary conditions for Maxwell perturbations in Kerr-Ads black holes
	P4	João Filipe Horta Belo	GD5SI1.3GE2.7 GIANT MAGNETOCALORIC THIN FILM: SYNTHESIS AND POST TREATMENTS
	P5	Marcelo Baptista Barbosa	Structural and electronic characterization of Ga <sub>2</sub> O <sub>3</sub> samples using Perturbed Angular Correlations
	P6	Adérito Aramuge	STORM SURGE CHANGES ALONG THE COAST OF MOZAMBIQUE FOR FUTURE CLIMATE SCENARIOS
	P7	Carlos Amorim	To be announced
	P8	G. N. P. Oliveira	Hydrostatic pressure in CdCr <sub>2</sub> S <sub>4</sub> : Effect on local magnetic clusters
	P9	Marta Ferreira	OPTICAL FIBER SENSORS FOR EXTREME ENVIRONMENTS
	P10	João Carlos Almeida Monteiro Azevedo	Cuprous Oxide as a promising Solar Water Splitting Photocathode – Solving the Stability Technological Problems