

MONDAY- 7th September 2015	
8:00-9:00	Registration
9:00-9:15	Opening Session
Session I	
9:20-10:00	PL1 - New portable XRF instrumentation for field-based studies: validation on the bench and in the field Patrick Parsons (Wadsworth center, Division of Environmental Health Sciences, NY, USA)
10:00-10:30	IL1 - Applications of Wavelength Dispersive XRF in trace elements research José Brito (WDXRFLab, Egas Moniz – Cooperativa de Ensino Superior, CRL)
10:30-11:00	IL2 - Induced molecular dissociations as a radiation damage descriptor: nanodosimetry Gustavo García (Instituto de Física Fundamental, CSIC, Spain)
11:00-11:20	Coffee Break
Session II	
11:20-12:00	PL2 - The GBAR project, or how does antimatter falls Paul Indelicato (Kastler Brossel Laboratory, ENS, CNRS, Université Pierre et Marie Curie, Paris, France)
12:00-12:20	O1 - Single differential electron impact ionization cross sections in the binary-encounter-Bethe approximation for the low binding energy regime Mauro Guerra (LIBPHYS-UNL, Portugal)
12:20-12:40	O2 - Transmission of Helium through Graphynes' Pores: a Quantum Mechanical Study Marta I. Hernández (Instituto de Física Fundamental, CSIC, Spain)
12:40-13:00	O3 - Molecular chirality in the gas phase: rotational spectroscopy and three-wave mixing of pulegone María Del Mar Q. Moreno (University of Jaen, Spain)
13:00-14:30	Lunch
Session III	
14:30-15:10	PL3 - Femtochemistry and laser control of photochemical reactions Niels Henriksen (Technical University of Denmark, Denmark)
15:10-15:40	IL3 - Computer simulations of soft landing of ions on self-assembled monolayers Saulo Vasquez (Universidad de Santiago de Compostela, Spain)
15:40-16:00	O4 - New improvements in the description of the PES and collisions of H₂ + H₂⁺ system Cristina Sanz-Sanz (Autonoma University of Madrid, Spain)
16:00-16:20	O5 - Can reactivity be governed by rotational energy? The role of rotational activation on bifurcating PES. Ana Martín Sómer (Université d'Evry val d'Essonne, France)
16:20-16:40	Coffee Break
16:40-17:20	PL4 - Product branching ratios and extent of intersystem crossing in atomic oxygen reactions with unsaturated hydrocarbons Nadia Balucani (University Of Perugia, Italy)
17:20-17:40	O6 - Distinct influence of vibration on the two channels of the D+MuH(v=1) reaction Víctor J. Herrero (Instituto de Estructura de la Materia (IEM-CSIC), Spain)
17:40-18:00	IL11 - Analysis of heterogeneous samples and simple stratigraphies using X-Ray Fluorescence - Applications to Cultural Heritage Sofia Pessanha, Maria Luísa Carvalho (LIBPHYS-UNL, Universidade nova de Lisboa, Portugal)
18:00-20:00	Poster Session
19:00-21:00	Wine Degustation

TUESDAY – 8th September 2015

Session IV		
9:00-9:40	PL5 - New advances in femtochemistry Valerie Blanchet (Université de Bordeaux, France)	
9:40-10:10	IL4 - Control of ultrafast molecular photodissociation in laser-induced potentials Rebeca de Nalda (Instituto de Química Física Rocasolano, CSIC, Spain)	
10:10-10:30	O8 - Glucose Clusters: Unraveling the interaction of terminal Glucoses by IR Laser spectroscopy in supersonic expansion Imanol Usabiaga (University of the Basque Country (UPV-EHU))	
10:30-10:50 Coffee Break		
Session V		
10:50-11:30	PL6 - From electronic structure to dynamics within the Born-Oppenheimer approximation and beyond António Varandas (Universidade de Coimbra, Portugal)	
11:30-12:00	IL5 - A dynamical study of the predissociation of H₂O⁺ Luis Mendéz Ambrosio (Universidad Autónoma de Madrid, Spain)	
12:00-12:20	O9 - Molecular recognition at water/air interfaces illustrated with inclusion complexes of calixarenes with metal cations Bruno Martínez-Haya (Universidad Pablo de Olavide, Spain)	
12:20-12:40	O10 - Mapping the dissociative ionization dynamics of molecular nitrogen with attosecond resolution Jesus González-Vázquez (Universidad Autónoma de Madrid, Spain)	
12:40-14:10 Lunch		
14:10-14:50	PL7 - Attosecond molecular dynamics Fernando Martín (Universidad Autónoma de Madrid, Spain)	
14:50-15:20	IL6 - Electron transfer to acetic acid: OH- formation via diol intermediate Filipe Silva (CEFITEC FCT/UNL, Portugal)	
15:20-15:40	O11 - Huge quantum symmetry effect in the O+O₂ exchange reaction Gregoire Guillon (University of Bourgogne, France)	
15:40-16:00	O12 - Unraveling the conformational preferences of DNA-bases Aggregates by Electronic Spectroscopy in Molecular Beams Jorge Gonzales (University of the Basque Country (UPV-EHU))	
16:00-23:00 Social Event and Conference Dinner		

WEDNESDAY – 9th September 2015

Session VI		
9:00-9:40	PL8 - Condensed phase molecular dynamics simulations at the frontiers of high-performance computing, physics, and digital aesthetics David Glowacki (University of Bristol, UK)	
9:40-10:10	IL7 - Origami rules for the construction of localized eigenstates of the Hubbard model in decorated lattices Ricardo Dias (University of Aveiro, Portugal)	
10:10-10:30	O13 - Global optimization of coarse-grained models for virus capsids and astrophysically relevant molecules Javier Hernandez-Rojas (Universidad de La Laguna, Tenerife, Spain)	
10:30-10:50	O14 - Extending the boxed molecular dynamics algorithm to undertake adaptive dynamical path sampling in multidimensional collective variable space Mike O'Connor (School Of Chemistry, University Of Bristol, UK)	
10:50-11:10	Coffee Break	
Session VII		
11:10-11:40	IL8 - What we can expect of high resolution spectroscopies on sugars? Emilio Cocinero (Universidad del País Vasco)	
11:40-12:10	IL9- SERS and SEF Nanosensors based on Nanostructured Metal Surfaces: Linkage of plasmonic nanoparticles in colloidal suspensions for enhanced molecular sensing José García-Ramos (Instituto de Estructura de la Materia , CSIC, Spain)	
12:10-12:40	IL10 - Characterization and modification of semiconductor nanostructures by ion beams Katharina Lorenz (IPFN, Instituto Superior Técnico, Universidade de Lisboa, Portugal)	
12:40-13:00	O15 - Atoms inside Casimir cavities within the realm of Stochastic Electrodynamics Carlos O. Henriques (LIBPhys-UC, Universidade de Coimbra, Portugal)	
13:00-14:30	Lunch	
Session VIII		
14:30-15:10	PL9 - Designer photons for designed bound and free electron wave-packets Thomas Baumert (University of Kassel, Germany)	
15:10-15:30	O7 - Statistical fluctuations of photoelectron emission from CsI photocathodes in Noble gases Fábio Pereira (Universidade de Aveiro, Portugal)	
15:30-15:50	O16 - Electroluminescence yield of xenon with small quantities of CH₄ and CO₂ additives Elisabete Freitas (LIBPhys-UC, Universidade de Coimbra, Portugal)	
15:50-16:10	Coffee Break	
Session IX		
16:10-16:40	IL12 - Laser Spectroscopy in Muonic Atoms: The Lamb-shift measurement Cristina Monteiro (LIBPhys-UC, Universidade de Coimbra, Portugal)	
16:40-17:00	O17 - Quantum interferences in laser spectroscopy of muonic atoms Pedro Amaro (LIBPHYS-UNL, Universidade nova de Lisboa, Portugal)	
17:00-17:20	O18 - High precision tests of QED - Measurement of the alpha-particle and helion rms charge radius and the transition energies in highly-charged ions Jorge Machado (LIBPHYS-UNL, Universidade nova de Lisboa, Portugal)	
17:20	Closing Session	

POSTER SESSION	
Name	Abstract Title
Victor Herrero	<i>P01 - Laboratory analogs of interstellar carbonaceous dust: plasma deposition and energetic processing</i>
Juan González	<i>P02 - Supramolecular organization of perfluorinated 1H-indazoles in the solid state by using vibrational spectroscopies sensitive (VCD) and non sensitive (MIR, FIR and Raman) to chirality: The case of 3-pentafluoroethyl-4,5,6,7-tetrafluoro-1H-indazole</i>
Rebeca De Nalda	<i>P03 - Double pulse femtosecond laser ablation of Co/ZnS</i>
Rebeca De Nalda	<i>P04 - Third harmonic generation in fs-ablation plasmas of metals</i>
Rebeca De Nalda	<i>P05 - Predissociation dynamics of the methyl radical measured in real time with velocity map ion imaging</i>
Joaquin Camacho	<i>P06 - Emission characteristics and dynamics of species in a TEA-CO₂ laser-produced CaO plasma</i>
Luis Diaz	<i>P07 - Time and space-resolved study of a laser-produced SiO plasma</i>
Wenli Wang	<i>P08 - Theoretical studies of the reactions LiH + H</i>
Jose Carreira	<i>P09 - Spectroscopic analysis of TSAG and TSLAG crystals</i>
Jose Carreira	<i>P10 - Optical and Structural analysis of LYSO:Ce crystals</i>
Katheryna Krupa	<i>P11 - Induced molecular dissociations as a radiation damage descriptor: nanodosimetry</i>
Marta Fernández	<i>P12 -Ultrafast Photochemistry of Solvated p-Toluidine</i>
Virginia Olabegoya	<i>P13 -Ultrafast Photochemistry of N-Methylpyrrole</i>
Pedro Amaro	<i>P14 -Evaluation of the two-photon decay of the metastable 1s22s2p3P0 state in berylliumlike ions with an effective potential</i>
Sofia Pessanha	<i>P15 -Micro analytical techniques to study the effects of abusive use of whitening products in dental enamel</i>
Sofia Pessanha	<i>P16 -Applications of Raman spectroscopy in dental research: interface between dentin and direct composite restorations</i>
Sofia Pessanha	<i>P17 -Synchrotron radiation and Raman Spectroscopy for investigating tattoo inks.</i>
Vanessa Antunes	<i>P18 -White chalk ground layers of the 15th and 16th centuries paintings assessed by multianalytical spectroscopic techniques</i>
Soumaia Fellak	<i>P19 -FTIR Spectroscopy and X-Ray Diffraction to characterize Moroccan Cedrus wooden artifacts dating to 21th, 19th and 16th centuries</i>
Sofia Pessanha	<i>P20 - Assessment of postmortem elemental characterization of 18th century human remains by EDXRF</i>
I. Queralt	<i>P21 - Multielemental composition of vegetables grown in agricultural soils irrigated with reclaimed waste waters Application of microanalytical X-ray fluorescence</i>
M. Gil	<i>P22 - Multianalytical techniques used to characterize the work of José de Escovar, the Alentejo most famous 16th-17th mural painter, in the Chapel of Souls</i>
M. Gil	<i>P23 - A review on (un)stability of HgS in alkaline environments, green and blue basic copper carbonates in 16th-17th frescoes paintings</i>
Fernando Amaro	<i>P24 - A robust large area x-ray imaging system based on 100 µm thick Gas Electron Multiplier (GEM)</i>
Diana Guimarães	<i>P25 - Trace Element Characterization of dried baby shrimp: Bulk Analysis by Portable High Definition XRF compared to Elemental Mapping by Synchrotron Radiation uXRF using a MAIA detector</i>
Ana Luisa Silva	<i>P26 - EDXRF imaging system based on a THCOBRA: characteristics and</i>

	<i>adequacy</i>
Carlos Azevedo	<i>P27 - High pressure Xenon GSPC based detector for hard X-ray and gamma spectroscopy</i>