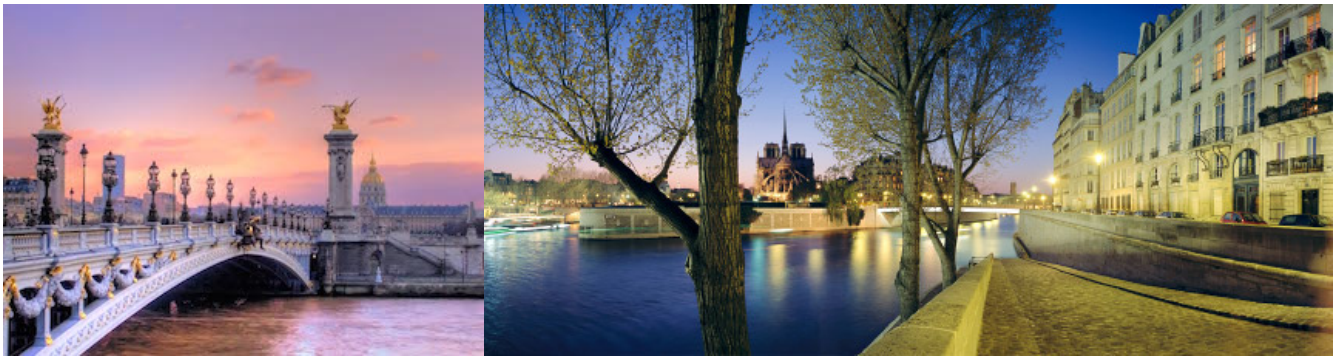

19th International Conference on Atomic Processes in Plasmas
4-8 April 2016, Paris

Campus Les Cordeliers

15, rue de l'Ecole de Médecine

CONFERENCE PROGRAM

Monday, April 4th

18:00-20:30 REGISTRATION AND WELCOME RECEPTION

Tuesday, April 5th

8:15-8:45 REGISTRATION

8:45-9 :00 INTRODUCTION

9:00-11:00 ATOMIC DATA AND PROCESSES. I

9:00-9:30 **Yu. Ralchenko**, NIST, Gaithersburg **(Invited)**
Atomic data quality and needs for collisional-radiative modeling

9:30-10:00 **H. K. Chung**, IAEA, Vienna **(Invited)**
Atomic processes in X-ray free electron produced plasmas

10:00-10:20 **N. Tyndall**, Queen's University Belfast
Electron-impact excitation and photoionization cross-sections involving low ionization stages of Cobalt for astrophysical plasmas

10:20-10:40 **S. Ali**, Institute for Laser Science, University of Electro-Communications, Tokyo
Spectroscopy of highly charged iron ions relevant to astrophysical plasmas

10:40-11:00 **M. Bautista**, Western Michigan University, Kalamazoo
Atomic data and spectral models for low ionization Fe-peak ions

11:00-11:30 COFFEE BREAK

11:30-13:00 HIGH ENERGY DENSITY PLASMAS. I

11:30-12:00 **C. Mossé**, PIIM, Aix-Marseille Université **(Invited)**
Prospect of photo-pumping experiment with XFEL source in a hot and dense plasma

12:00-12:30 **D. J. Hoarty**, AWE, Reading **(Invited)**
Measurements of plasma spectra from hot, dense elements and mixtures at conditions relevant to the solar radiative zone

12:30-13:00 **G. Rochau**, Sandia National Lab **(Invited)**
Opacity measurements and analysis at stellar interior conditions

13:00-14:00 LUNCH

14:00-16:00 POSTER SESSION

16:00-18:10 MAGNETIZED PLASMAS

16:00-16:30 **D. Reiter**, Institute of Energy and Climate Research, Jülich **(Invited)**
Atomic collision kinetics and dynamics in fusion edge plasmas: detailed book-keeping by integrated computations

16:30-17:00 **Y. Marandet**, PIIM, Aix-Marseille Université **(Invited)**
Turbulence and atomic physics in magnetically confined plasmas

17:00-17:30 **V. Soukhanovski**, Lawrence Livermore National Lab **(Invited)**
Near-infrared spectroscopy of tokamak divertor plasmas

17:30-17:50 **J. Rosato**, PIIM, Aix-Marseille Université
Modeling of Stark-Zeeman line shapes in magnetic fusion plasmas

17:50-18:10 **M. Pajek**, Jan Kochanowski University, Kielce, Poland
Magnetic field effect in radiative recombination of bare uranium ions with electrons

Wednesday, April 6th

9:00-11:00 ASTROPHYSICS

9:00-9:30 **C. Fontes**, Los Alamos National Lab **(Invited)**
Spectral modeling of astrophysical interest

9:30-9:50 **J. Colgan**, Los Alamos National Lab
A new generation of Los Alamos Opacity Tables

9:50-10:20 **J. Kaastra**, SRON, Utrecht **(Invited)**
Astrophysical plasma modeling in the astro-H era

10:20-10:40 **V. Bommier**, Observatoire de Paris-Meudon
Non-perturbative theory of radiative scattering, in the weak radiation field limit

10:40-11:00 **R. Hutton**, Fudan University, Shanghai
Magnetic-field induced transitions: a novel method to determine magnetic fields in low-density plasma

11:00-11:30 COFFEE BREAK

11:30-12:40 X-RAY SOURCES. I

11:30-12:00 **G. O'Sullivan**, University College Dublin **(Invited)**
Source development for extreme ultraviolet lithography and water window imaging

12:00-12:20 **O. Guilbaud**, LPGP, Université Paris-Sud
Near-field and far-field structure of a seeded plasma-based soft x-ray laser

12:20-12:40 **D. Kurilovich**, Advanced Research Center for Nanolithography, Amsterdam
Laser-produced plasma EUV source based on liquid tin droplets

12:40-14:00 LUNCH

14:00-16:00 LOW TEMPERATURE PLASMAS. I

14:00-14:30 **J. Gudmundsson,** University of Iceland, Reykjavik **(Invited)**
Plasma chemistry and kinetics in low pressure discharges: The significance of metastable states

14:30-15:00 **E. Wagenaars**, University of York **(Invited)**
Picosecond two-photon absorption laser induced fluorescence for measuring reactive atomic species in atmospheric-pressure plasma jets

15:00-15:20 **J. Creel**, Trinity College Dublin
Heating and compression of laser produced plasma in a pulsed magnetic field

15:20-15 :40 **P. Grondein**, LPP, Ecole Polytechnique, Palaiseau
Iodine chemistry in global model and experiments

15:40-16:00 **A. Bartnik**, Institute of Optoelectronics, Warsaw
Low temperature photoionized plasmas driven by LPP EUV sources

16:00-16:30 COFFEE

16:30-17:50 WARM DENSE MATTER. I

16:30-17:00 **J. Wark**, University of Oxford **(Invited)**
X-ray spectroscopic studies of solid-density plasmas created by an X-ray free electron laser

17:00-17:30 **P. Sperling**, SLAC, Stanford **(Invited)**
Free-electron x-ray laser measurements in isochorically heated warm dense matter

17:30-17:50 **F. Rosmej**, Université Pierre et Marie Curie, Paris
Generalized atomic processes for WDM : XFEL interaction with solids

Thursday, April 7th

9:00-11:00 X-RAY SOURCES. II

9:00-9:30 **J. Colvin**, Lawrence Livermore National Lab **(Invited)**
Advances in non-equilibrium atomic physics with novel laser targets

9:30-10:00 **S. Sebban**, Laboratoire d'Optique Appliquée, ENSTA, Palaiseau **(Invited)**
Toward ultrafast and polarization controllable plasma-based soft X-ray lasers

10:00-10:20 **A. Le Marec**, ISMO, Université Paris-Sud
Influence of partial temporal coherence on the spectral characterization of XUV laser pulses

10:20-10:40 **D. Wilson**, Peter Grünberg Institut, Jülich
Tunable EUV radiation source for laboratory based photoemission spectro-microscopy

10:40-11:00 **Z. Samsonova**, Friedrich Schiller Universitat, Jena
X-ray emission generated by laser-produced plasma from dielectric nanostructured targets

11:00-11:30 COFFEE BREAK

11:30-12:40 LOW TEMPERATURE PLASMAS. II

11:30-12:00 **A. Bultel**, CORIA, Université de Rouen **(Invited)**
State-to-state modeling of non equilibrium low temperature atomic plasmas

12:00-12:20 **A. Puglisi**, LCPMR, Université Pierre et Marie Curie, Paris
Ab-initio methods for core level spectra simulation of hydride molecular ions

12:20-12:40 **C. Brandt**, Max Planck-Institute for Plasma Physics, Greifswald
Emission of fast non-Maxwellian hydrogen atoms in low-density laboratory plasmas

12:40-14:00 LUNCH

14:00-15:30 A TRIBUTE TO CLAIRE AND JACQUES BAUCHE Chair: J.-C. Gauthier

14:00-14:30 **J.-F. Wyart**, LERMA, Observatoire de Paris-Meudon **(Invited)**
Interpreting atomic spectra in the vicinity of Claire and Jacques Bauche

14:30-15:00 **J.-C. Pain**, CEA, DAM, DIF, Arpajon **(Invited)**
Statistical properties of levels and lines in complex atomic spectra

15:00-15:30 **O. Peyrusse**, PIIM, Aix-Marseille Université **(Invited)**
Some remarks on global methods for the modeling of atomic physics in hot plasmas

15:30-16h00 COFFEE BREAK

16:00-17:00 A TRIBUTE TO CLAIRE AND JACQUES BAUCHE

16 :00-16 :30 **M. Klapisch**, Berkeley Research Associates, Beltsville, MD **(Invited)**
Transition Arrays: Unresolved or Resolved

16:30-17:00 **C. Iglesias**, Lawrence Livermore National Lab **(Invited)**
Beyond the unresolved transition array approximation

17:00-18:20 ATOMIC DATA AND PROCESSES. II

17:00-17:30 **G. Gribakin**, Queen's University Belfast **(Invited)**
Can quantum chaos prevent nuclear fusion ?

17:30-17:50 **S. Preval**, University of Strathclyde, Glasgow
The Tungsten Project: Dielectronic Recombination data for Collisional-Radiative Modelling in ITER W^{44+}-W^{74+}

17:50-18:20 **P. Indelicato**, Laboratoire Kastler Brossel, Paris **(Invited)**
Status of QED tests in high-Z few electron ions

19:30-21:30 CONFERENCE DINNER

Friday, April 8th

8:50-10:50 HIGH ENERGY DENSITY PLASMAS. II

8:50-9:20 **R. Mancini**, University of Nevada, Reno **(Invited)**
X-ray spectroscopy of inertial confinement fusion plasmas

9:20-9:50 **H. A. Scott**, Lawrence Livermore National Lab **(Invited)**
Non-LTE Modeling of Radiatively-Driven Dense Plasmas

9:50-10:10 **J. Larour**, LPP, Polytechnique, Palaiseau
PC Spectra analysis of L-shell copper X-pinch plasma produced by the compact generator of Ecole Polytechnique

10:10-10:30 **M. Dozières**, LIDyL, CEA, Saclay
Simultaneous X and XUV opacity measurements in dense plasmas

10:30-10:50 **F. P. Condamine**, LULI, Polytechnique, Palaiseau
M-shell resolved high-resolution X-ray spectroscopic study of transient matter evolution driven by hot electrons in kJ-laser produced plasmas

10:50-11:20 COFFEE BREAK

11:20-12:20 WARM DENSE MATTER. II

11:20-11:40 **S. Ferri**, PIIM, Aix-Marseille Université
Classical molecular dynamics for non equilibrium correlated plasmas

11:40-12:00 **V. Aslanyan**, University of York
Efficient calculation of atomic rate coefficients in dense plasmas

12:00-12:20 **L. Harbour**, Montreal University
Accurate and efficient neutral pseudo-atom model to predict warm dense matter properties

12:20-13:00 ATOMIC DATA AND PROCESSES. III

12:20-12:40 **V. Stancalie**, National Institute for Laser, Romania
Atomic data for transitions in S V

12:40-13:00 **S. Ankita**, Physics Department, Aligarh Muslim University, India
The Spectrum of Doubly Ionized Silver: Ag III

13:00 MEETING CLOSE