

# 17th International Congress on **Plasma Physics** Lisbon, Portugal



## BOOK OF ABSTRACTS

Edited by  
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## **ICPP2014 book of abstracts structure**

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**Abstracts (To access any abstract please click the abstract reference code, just before the authors)**

**List of Authors**

## Foreword

This document contains the abstracts of the invited and contributed papers presented at the 17<sup>th</sup> International Congress on Plasma Physics held in Lisbon, September 15-19, 2014.

The scope of International Congress on Plasma Physics is to discuss the recent progress and to establish a view on the future of plasma science, covering a wide range of aspects on fundamental plasma physics, fusion plasmas, astrophysical plasmas and plasma applications.

The International Congress on Plasma Physics was first held in Nagoya, in 1980, and followed by similar events in many different cities around the world: Gothenburg (1982), Lausanne (1984), Kiev (1987), New Delhi (1989), Innsbruck (1992), Foz-do-Iguaçu (1994), Nagoya (1996), Prague (1998), Quebec City (2000), Sydney (2002), Nice (2004), Kiev (2006), Fukuoka (2008), Santiago (2010) and Stockholm (2012).

Magnetically Confined Fusion (MCF), Laser and Particle Beams (LTP), Basic and Astrophysical Plasmas (BAP), Low Temperature Plasmas (LTP) were the fundamental fields and therefore contributions followed these themes.

We are in debt to everyone who personally participated in this event, in particular to the members of the Local Organizing Committee, who in the measure of their possibilities made an inestimable contribution to the easy running of this conference. Our principal gratitude, nevertheless, is towards every conference invited and contributor. Several hundred contributions arrived from Brazil to Japan with stimulating, resplendent and rich contents that, in every aspect, mirror our scientific community and brought bright perspectives into many plasma physics subjects.

We are also grateful to International Union of Pure and Applied Physics (IUPAP) and European Cooperation in Science and Technology (COST). Two prizes were attributed in this conference: the IUPAP Young Scientist Prize in Plasma Physics 2014, to recognize exceptional achievement in the study of plasma physics by scientists at a relatively early stage of their career, and the 2014 Edouard Fabre Prize, promoted by the COST Action MP1208 “Developing the physics and the scientific community for Inertial Confinement Fusion”, entitled to the memory of Edouard Fabre. Besides this, IUPAP also promoted several travel grants.

Finally, we are indebted to our local sponsors: Instituto de Plasmas e Fusão Nuclear, Instituto Superior Técnico, Universidade de Lisboa, Câmara Municipal de Lisboa.

José Tito Mendonça and Jorge Loureiro  
Chair and Co-Chair of the LOC

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## Detailed Program

### SUNDAY – 14<sup>th</sup> of September

16:00 – 19:00 REGISTRATION  
IST CONGRESS CENTRE

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### MONDAY – 15<sup>th</sup> of September

8:30 – 9:00 REGISTRATION  
IST CONGRESS CENTRE

#### ROOM 1

9:00-10:30, Chair – G. Morales

9:00, B. Gonçalves (Head of IPFN) – Welcoming address;

9:15, V. Fortov, STRONGLY NONIDEAL PLASMA-DENSITY AND CHARGE COUPLING;

10:00, N. Kasuya, SIMULATION STUDY OF HYSTERESIS IN THE FLUX-GRADIENT RELATION IN TURBULENT TRANSPORT;

10:30 – 11:00, COFFEE BREAK

#### ROOM 1

11:00-12:30, MCF Session, Chair – S. Benkadda

11:00, Ph. Morrison, HAMILTONIAN AND ACTION PRINCIPLE DERIVATIONS OF REDUCED MAGNETOFLUID MODELS FOR PLASMA DYNAMICS – CONSEQUENCES;

11:30, H. Tsuchiya, IMPACT OF STOCHASTIZATION OF MAGNETIC FIELDS ON INTERNAL TRANSPORT BARRIER IN LHD;

12:00, G.J. Morales, SHEAR ALFVÉN WAVES IN ITER PLASMAS AND THE ION-ION HYBRID RESONATOR;

12:15, A.G. Elfimov, GEODESIC MODE SPECTRUM MODIFIED BY THE ENERGETIC PARTICLES IN TOKAMAK PLASMAS;

#### ROOM 2

11:00-12:30, LTP Session, Chair – J.P. Booth

11:00, S. Baalrud, EXTENSIONS AND APPLICATIONS OF THE BOHM CRITERION;

11:30, J. Amorim-Filho, STUDY OF AN ATMOSPHERIC PRESSURE ARGON MICROPLASMA JET;

12:00, A. Todoran, CONTROL OF THE PARTICLE FLUX AND ENERGY AT THE SUBSTRATE IN AN INVERTED CYLINDRICAL MAGNETRON REACTOR FOR PLASMA PVD;

12:15, V. Nosenko, PARTICLE PAIRING IN COMPLEX PLASMAS;

12:30 – 14:00, LUNCH BREAK

#### ROOM 1

14:00-15:30, MCF Session, Chair – A. Sen

14:00, R. Ganesh, LARGE SCALE PARTICLE-IN-CELL SIMULATION OF STEADY STATE MICROTURBULENCE IN TOKAMAKS;

14:30, A. Smolyakov, ZONAL FLOWS AND GEODESIC ACOUSTIC MODES;

**15:00, G. Gladush**, COMPACT TOKAMAK PLASMA - NEUTRON SOURCE FOR HYBRID REACTOR FOR PRODUCING FUEL 233U;

**15:15, A.M. de Aguilera**, PARTICLE TRANSPORT RESPONSE TO DYNAMICAL DENSITY GRADIENTS AS A FUNCTION OF MAGNETIC WELL IN THE TJ-II STELLARATOR;

## **ROOM 2**

**14:00-15:30, BAP Session, Chair – G. Brodin**

**14:00, W. Gekelman**, EXPERIMENTAL INVESTIGATION OF THE EMERGENCE OF CHAOS IN THE DYNAMICS OF CURRENT SHEETS AND FLUX ROPES;

**14:30, B. Zelener**, ULTRACOLD PLASMA AND RYDBERG ATOMS IN A MAGNETIC FIELD.

**15:00, V. Belashov**, DYNAMICS OF IGW AND TRAVELING IONOSPHERIC DISTURBANCES IN PLASMA OF IONOSPHERE WITH SHARP GRADIENTS OF BASIC PARAMETERS OF MEDIUM;

**15:15, G. Mamatsashvili**, SUBCRITICAL TURBULENCE IN 2D MHD PLANE SHEAR FLOWS -- SELF-SUSTENANCE VIA INTERPLAY OF LINEAR TRANSIENT GROWTH AND NONLINEAR TRANSVERSE CASCADE.

## **ROOM 3**

**14:00-15:30, COST MEETING, Chair D. Batani, Ph. Zeitoun**

**14:00, G.A. Pavlov**, IMAGE REGISTRATION OF DENSE PLASMA CLOTS IN THE HARD X-RAY RANGE;

**14:15, Ph. Nicolai**, DEMONSTRATION OF LASER IMPRINT REDUCTION USING UNDERDENSE FOAMS AND ITS CONSEQUENCES ON THE HYDRODYNAMIC INSTABILITY GROWTH;

**14:30, V. Bychenkov**, OPTIMIZATION STUDY OF LASER TRIGGERED ION ACCELERATION FOR RADIATION SOURCES OF SOCIALLY SIGNIFICANT APPLICATIONS;

**14:45, D. Del Sorbo**, NONLOCAL TRANSPORT MODEL BASED ON ENTROPIC CLOSURE OF MOMENT EQUATIONS;

**15:00, I.B. Foldes**, HIGH HARMONICS FROM NOBLE GAS CLUSTERS;

**15:15, A.A. Andreev**, MULTI-STAGE ION ACCELERATION IN ELECTRIC FIELD OF A FOIL IRRADIATED BY ULTRA-INTENSE LASER PULSES.

**15:30 – 16:00, COFFEE BREAK**

## **CONGRESS CENTRE HALL**

**16:00 – 17:30, POSTER SESSION 1: MCF, LTP**

## **ROOM 3**

**16:00-18:00, COST MEETING, Chair D. Batani, Ph. Zeitoun**

**16:00, A. Inglebert**, IONIC SPECIES SEPARATION IN THE HOT SPOT OF marginally IGNITING TARGETS;

**16:15, O. Renner**, K-SHELL X-RAY DIAGNOSIS OF HOT ELECTRON GENERATION IN LASER-IRRADIATED CU FOILS;

**16:30, V. Stancalie**, SIMULATION OF THE IONIZATION DYNAMICS OF ALUMINUM IRRADIATED BY INTENSE SHORT-PULSE LASERS;

**16:45, T. Akhter**, STABILIZING EFFECTS IN A SELF-MODULATED LONG RELATIVISTIC CHARGED-PARTICLE BEAM TRAVELLING IN A PLASMA;

**17:00, N.E. Andreev**, ELECTRON ACCELERATION AND X-RAYS GENERATION IN THE INTENSE LASER-MATTER INTERACTIONS;

**17:15, A. Vallet**, SEMI-ANALYTIC MODELING OF SHOCK IGNITION.

**20:00 – 21:30, RECEPTION**  
**MUSEU DA CIDADE**

## **TUESDAY – 16<sup>th</sup> of September**

### **ROOM 1**

**9:15-10:30, Chair – R. Bingham**

**9:15, R. Dendy**, ION CYCLOTRON EMISSION FROM FUSION-BORN IONS IN LARGE TOKAMAK PLASMAS: FROM JET AND TFTR TO ITER;

**10:00, S. Baton**, EXPERIMENTS ON SHOCK IGNITION: WHAT HAS BEEN DONE;

**10:30 – 11:00, COFFEE BREAK**

### **ROOM 1**

**11:00-12:30 LPB Session, Chair – A. Cairns**

**11:00, F. Pegoraro**, LASER-DRIVEN RADIATION PRESSURE ACCELERATION AND RAYLEIGH-TAYLOR INSTABILITY;

**11:30, J.J. Santos**, PULSED KTESLA DIPOLAR MAGNETIC FIELD GENERATION BY LASER AND APPLICATIONS.

**12:00, N.K. Verna**, TERAHERTZ RADIATION GENERATION VIA LASER-MAGNETIZED PLASMA INTERACTION;

**12:15, M. Tayyab**, EFFECT OF LASER CHIRP ON PROTON ACCELERATION IN THIN FOIL TARGETS;

### **ROOM 2**

**11:00-12:30, LTP Session, Chair – M. Hellberg**

**11:00, Amita Das**, COLLECTIVE BEHAVIOR OF STRONGLY COUPLED DUSTY PLASMA;

**11:30, O. Petrov**, TWO-DIMENSIONAL MELTING OF DUST CRYSTAL IN PLASMA: SIMULATIONS, DIAGNOSTICS AND EXPERIMENTS;

**12:00, F. Gaboriau**, EXPERIMENTAL STUDY OF MAGNETIZED ELECTRON TRANSPORT IN LOW TEMPERATURE PLASMAS IN CLOSED AND BOUNDED DRIFT CONFIGURATIONS;

**12:15, J.L. Ferreira**, DEVELOPMENT OF PERMANENT MAGNET HALL THRUSTERS FOR APPLICATIONS ON FUTURE BRAZILLIAN SPACE MISSIONS;

**12:30 – 14:00, LUNCH BREAK**

### **ROOM 1**

**14:00-15:30, LPB Session, Chair Ph. Zeitoun**

**14:00, P. Koester**, EXPERIMENTAL STUDIES ON FAST ELECTRON TRANSPORT IN RELATIVISTIC LASER-MATTER INTERACTIONS;

**14:30, A. Cairns**, THE ROLE OF COLLISIONLESS SHOCKS IN SOME LASER-PLASMA PROBLEMS;

**15:00, B. Ramakrishna**, GENERATION OF ENERGETIC PARTICLES IN INTENSE LASER MATTER INTERACTION;

**15:15, N.K. Jaiman**, RELATIVISTIC HARMONICS GENERATION BY ULTRASHORT AND ULTRAINTENSE LASER PULSE DRIVEN HIGH DENSITY PLASMA;

### **ROOM 2**

**14:00-15:30, LTP Session, Chair J. Loureiro**

**14:00, Atsushi M. Ito**, MOLECULAR DYNAMICS AND DENSITY FUNCTIONAL SIMULATIONS FOR CLASSIFICATION OF HYDROGENATED AMORPHOUS CARBON;

**14:30, V.V. Andreev**, INVESTIGATION OF IMPACT OF THE ELECTRIC DISCHARGES ON ORGANOSILICON VARNISH FILM APPLIED ON THE TEXTOLYTE SURFACE;

**14:45, A. Fedoseev**, DUST CLOUD FORMATION IN THE STRIATION OF A DC GLOW DISCHARGE IN HELIUM;

**15:00, G. Sukhinin**, POLARIZATION OF “DUST QUASI-ATOMS” IN AN EXTERNAL ELECTRIC FIELD;

**15:15, K. Sasaki**, RESPONSES OF OH(X) AND OH(A) TO THE ELECTRICAL CURRENT OF DIELECTRIC BARRIER DISCHARGE IN A PLASMA-ASSISTED BURNER FLAME.

**15:30 – 16:00, COFFEE BREAK**

#### **ROOM 1**

**16:00-18:00, LPB Session, Chair M. Koenig**

**16:00, M. Fajardo**, PROBING SOLID DENSITY PLASMAS GENERATED BY X-RAY FREE ELECTRON LASERS WITH AN ULTRASHORT HIGH HARMONIC SOURCE;

**16:30, M. Murakami**, PROTON BEAM GENERATION BY NANOTUBE ACCELERATOR;

**17:00, Tong-Pu Yu**, ULTRA-BRIGHT SYNCHROTRON-LIKE GAMMA RAYS FROM LASER WIRE TARGET INTERACTION;

**17:15, D. Bleiner**, SHORT-WAVELENGTH PLASMA RADIATION FOR TABLE-TOP NANO-INSPECTION;

**17:30, M. Skoric**, INTENSE COMPRESSION AND AMPLIFICATION OF ATTOSECOND PULSES BY LASER LIGHT REFLECTION FROM RELATIVISTIC ELECTRON MIRRORS;

**17:45, A. Yogo**, ION ACCELERATION VIA “STOCHASTIC VACUUM HEATING”.

**18:00-19:00, Open Session, FABRE PRIZE**

Special session dedicated to the announcement of the winner of the first FABRE PRIZE for contributions to Inertial Fusion and Laser Plasma Interaction.

#### **ROOM 2**

**16:00-18:00, BAP Session, Chair R. Fedele**

**16:00, V. Filinov**, QUANTUM SIMULATION OF THERMODYNAMIC AND TRANSPORT PROPERTIES OF THE QUARK-GLUON PLASMA;

**16:30, S. Ter-Avetisyan**, MEV NEGATIVE AND NEUTRAL ATOM BEAMS;

**16:45, C. Ruyer**, FORMATION OF WEIBEL-MEDIATED COLLISIONLESS SHOCKS: ANALYTICAL MODEL FOR SYMMETRIC COLLIDING FLOWS AND NUMERICAL STUDY OF LASER-DRIVEN SHOCKS IN OVERDENSE PLASMAS;

**17:00, R. Horiuchi**, COLLISIONLESS DRIVEN RECONNECTION UNDER THE INFLUENCE OF STRONG GUIDE MAGNETIC FIELD IN AN OPEN SYSTEM;

**17:15, O. Pezzi**, COLLISIONAL EFFECTS ON ION-ACOUSTIC SOLITARY WAVES PROPAGATION;

**17:30, A. Okamoto**, INTERACTION BETWEEN ION BEAM AND RECOMBINING HYDROGEN PLASMA IN RADIO-FREQUENCY DISCHARGE DIVERTOR SIMULATING DEVICE;

**17:45, C.P. Olivier**, POLARITY SWITCHES OF ACOUSTIC SOLITONS IN MULTI-COMPONENT SPACE PLASMAS.



## **WEDNESDAY – 17<sup>th</sup> of September**

### **ROOM 1**

**9:15-10:30, Chair – D. Batani**

**9:15, R. Betti**, STATUS AND PROSPECTS FOR BURNING PLASMAS VIA LASER FUSION

**10:00, Kerchung Shaing**, NEOCLASSICAL TRANSPORT THEORY FOR ORBITS WITH FINITE WIDTH IN TOKAMAKS;

**10:30 – 11:00, COFFEE BREAK**

### **ROOM 1**

**11:00-13:00, MCF Session, Chair – R. Galvão**

**11:00, S. Krashennikov**, PHYSICS OF THE EDGE PLASMA AND FIRST WALL IN FUSION DEVICES: SYNERGISTIC EFFECTS;

**11:30, Daniel Klir**, EFFICIENT GENERATION OF FUSION NEUTRONS IN RECENT Z-PINCH EXPERIMENTS;

**12:00, Z. Guimarães Filho**, CHARACTERIZATION OF MHD INSTABILITIES IN TCABR TOKAMAK;

**12:30, D. Bonfiglio**, HELICAL SELF-ORGANIZATION IN 3D MHD MODELING OF FUSION PLASMAS;

### **ROOM 2**

**11:00-13:00, BAP Session, Chair – C. Forest**

**11:00, D. Speirs**, SCALED LABORATORY EXPERIMENTS AND NUMERICAL SIMULATIONS OF AURORAL MAGNETOSPHERIC RADIO EMISSION;

**11:30, M. Aramaki**, PRECISE CONTROL AND DIAGNOSTICS OF PLASMA USING TUNABLE DIODE LASERS;

**12:00, F. Haas**, RELATIVISTIC HYDRODYNAMIC EQUATIONS FOR FULLY DEGENERATE PLASMA;

**12:30, G. Brodin**, EXCHANGE EFFECTS IN PLASMAS: QUANTUM KINETIC THEORY;

**12:45, A. Bret**, COLLISIONLESS WEIBEL SHOCKS: FULL FORMATION MECHANISM AND TIMING.

**13:00 – 18:00, LUNCH BREAK + EXCURSION**

## **THURSDAY – 18<sup>th</sup> of September**

### **ROOM 1**

**9:15-10:30, Chair – L. Soto**

**9:15, Katsumi Ida**, EXPERIMENTAL PROGRESS OF TRANSPORT PHYSICS IN TOROIDAL PLASMAS.

**10:00, C. Forest**, STIRRING UNMAGNETIZED PLASMAS: DYNAMOS IN THE LAB;

**10:30 – 11:00, COFFEE BREAK**

### **ROOM 1**

**11:00-12:30, MCF Session, Chair – P. Sakanaka**

**11:00, H.J. Hole**, ADVANCED MHD MODELS OF ANISOTROPY, FLOW AND CHAOTIC FIELDS;

**11:30, I. Caldas**, ISOCHRONOUS ISLAND CHAINS MULTIPLICITY FOR WAVE-PARTICLE INTERACTIONS;

**11:45, R. Henriques**, THE HEAVY ION BEAM DIAGNOSTIC FOR PLASMA FLUCTUATION STUDIES AT THE TOKAMAK ISTTOK;

**12:00, G. Tynan**, OBSERVATION OF INWARD TURBULENT FLUX AGAINST DENSITY GRADIENT WITH SPATIALLY DISTINCT MULTIPLE FREE ENERGY SOURCES;

**12:15, J. Bernardo**, DENSITY IMPACT ON TOROIDAL ROTATION IN TORE SUPRA: EXPERIMENTAL OBSERVATIONS AND THEORETICAL INVESTIGATION;

### **ROOM 2**

**11:00-12:30 LTP Session, Chair – J.L. Ferreira**

**11:00, G. Hagelaar**, LOW-TEMPERATURE PLASMA TRANSPORT ACROSS MAGNETIC FIELDS: FROM ELECTRIC PROPULSION AND NEGATIVE ION SOURCES TO TOKOMAK EDGE PLASMAS;

**11:30, P. Bruggeman**, ELECTRON DENSITIES AND ENERGIES OF FILAMENTARY ATMOSPHERIC PRESSURE PLASMAS;

**12:00, A. Janeco**, A GLOBAL MODEL FOR DBD CONVERSION OF CH<sub>4</sub>/CO<sub>2</sub>;

**12:15, Y. Yasaka**, CONTROL OF SPATIAL PLASMA PROFILE IN SLOT-EXCITED MICROWAVE DISCHARGES BY USING INVERSE SIMULATION;

**12:30 – 14:00, LUNCH BREAK**

### **ROOM 1**

**14:00-15:30, LPB Session, Chair F. Pegoraro**

**14:00, A. Lifschitz**, SELF-INJECTION AND STABILITY IN LASER-PLASMA ACCELERATORS;

**14:30, O. Rosmej**, INVESTIGATIONS OF HYDRODYNAMIC, ABSORPTION AND RADIATIVE PROPERTIES OF X-RAY HEATED LOW DENSITY FOAMS FOR EXPERIMENTS ON HEAVY ION STOPPING IN PLASMAS;

**15:00, I. Potapenko**, KINETIC SIMULATION OF HEAT TRANSPORT IN COLLISIONAL LASER PRODUCED PLASMAS;

**15:15, G. Fiore**, A “SLINGSHOT” LASER-DRIVEN ACCELERATION MECHANISM OF PLASMA ELECTRONS.

### **ROOM 2**

**14:00-15:30, LTP Session, Chair V. Guerra**

**14:00, T. Nozaki**, NON-THERMAL PLASMA-ASSISTED FUEL CONVERSION FOR GREEN CHEMISTRY;

**14:30, J.A. Silva**, CHARACTERIZATION OF ATMOSPHERIC PRESSURE PLASMA-GROWN SiNx:H FILMS;

**14:45, E. Ahedo**, MAGNETIZED PLASMA PHYSICS; IN MAGNETIC NOZZLES FOR SPACE ELECTRIC PROPULSION;

**15:00, T. Shiraishi**, DEVELOPMENT AND PERFORMANCE INVESTIGATION OF DUAL-GROUNDED TRI-ELECTRODE PLASMA ACTUATOR

**1:15, G. D'Ammando**, STATE-TO-STATE MODELS FOR HIGH ENTHALPY NOZZLE AND SHOCK TUBE FLOWS;

**15:30 - 16:00, COFFEE BREAK**

**CONGRESS CENTRE HALL**

**16:00-17:30, POSTER SESSION 2: LPB, BAP**

**LOCATION - PALÁCIO CONDE D'ÓBIDOS**

**20:00-23:00, CONFERENCE DINER**

## **FRIDAY – 19<sup>th</sup> of September**

### **ROOM 1**

**9:30-10:30, Chair – L.O. Silva**

**9:30, IUPAP Prize, Wei Lu**, TOWARDS DREAM BEAM: A PERSONAL PERSPECTIVE ON PLASMA BASED ACCELERATION

**10:00, A. Raga**, WEAK SHOCK WAVES IN ASTROPHYSICAL AND GEOPHYSICAL FLOWS;

**10:30 – 11:00, COFFEE BREAK**

### **ROOM 1**

**11:00-12:30, BAP Session, Chair – A. Serbeto**

**11:00, M.A. Mochalov**, STRONG SHOCK WAVES AND EXTREME STATES OF MATTER;

**11:30, T. Kaladze**, EXCITATION OF ZONAL FLOW AND MAGNETIC FIELD BY ULF PLANETARY WAVES IN THE EARTH'S IONOSPHERIC E-LAYER;

**11:45: Z. Ehsan**, NONLINEAR LANDAU DAMPING OF EMWS AND ITS INTERDISCIPLINARY APPLICATIONS;

**12:00, C.Z. Cheng**, PHYSICS OF 2-1/2D DRIVEN COLLISIONLESS MAGNETIC RECONNECTION;

**12:15, N.S. Saini**, NONLINEAR KINETIC ALFVEN WAVES IN A TWO TEMPERATURE ELECTRONS PLASMAS;

### **ROOM 2**

**11:00-12:30, LTP Session, Chair – Amita Das**

**11:00, A. Bogaerts**, COMBINED PLASMA CHEMISTRY AND PLASMA-SURFACE INTERACTIONS MODELING FOR CO<sub>2</sub> CONVERSION BY GAS DISCHARGE PLASMAS;

**11:30, Xiaolong Deng**, PREPARATION OF AGNPS; DECORATED NON-WOVEN FABRICS USING AN ATMOSPHERIC; PRESSURE NONEQUILIBRIUM PLASMA;

**11:45, Jaeho Kim**, OPTICAL DIAGNOSTICS OF ATMOSPHERIC; PRESSURE MICROWAVE-EXCITED PLASMA JETS;

**12:00, L.L. Alves**, THE LXCAT PROJECT;

**12:15, T. Silva**, CHARACTERIZATION OF MICROWAVE GASEOUS DISCHARGES FOR DISSOCIATION OF CO<sub>2</sub>;

**12:30 – 14:00, LUNCH BREAK**

### **ROOM 1**

**14:00-15:30, PAB Session, Chair – A. Cairns**

**14:00, F. Tanjia**, LONGITUDINAL CHARGE-PARTICLE DYNAMICS INDUCED BY AN ULTRA-SHORT RELATIVISTIC ELECTRON BUNCH IN PLASMAS;

**14:15, B. Van Compernelle**, INTERMITTENT PROFILE COLLAPSE IN A BASIC HEAT TRANSPORT EXPERIMENT;

**14:30, Ph. Korneev**, LASER PRODUCED PLASMA INTERACTION WITH STRONG MAGNETIC FIELDS IN APPLICATIONS TO ASTROPHYSICAL STUDIES;

**14:45, L. Bilbao**, UNSTABLE VELOCITY GRADIENT FLOWS WITH ALIGNED MAGNETIC FIELD: THEORY AND OBSERVATION ASPECTS OF A NEAR EARTH SPACE PLASMA EVENT;

**15:00, R. Sydora**, ANOTHER VIEW ON ELECTRON BEAM-PLASMA INTERACTION AND RELATED PHENOMENA;

**15:15, M.A. Amato**, CHARGED PARTICLES IN THE HMF MODEL;

### **ROOM 2**

**14:00-15:30, LTP Session, Chair E. Tatarova**

**14:00, S. Mitic**, STAR-SHAPED DENSITY FLUCTUATIONS IN A CAPACITIVELY-COUPLED LOW PRESSURE, XENON RF DISCHARGE;

**14:15, M. Irie**, THE "STABLE" HELICAL MODE IN ARC DISCHARGE.

**14:30, F.E.M. Silveira**, AXISYMMETRIC INSTABILITIES FOR PLASMA COLUMNS WITH PARABOLIC PROFILE: CURRENT RELAXATION AND INDUCTIONLESS APPROXIMATION;

**14:45, E. Sternberg**, DYNAMICS OF A LASER-ABLATED MOLYBDENUM PLUME;

**15:00, T. Nakamura**, THRUST PERFORMANCE OF PERMANENT MAGNET TYPE HELICON PLASMA THRUSTER IN VARIOUS MAGNETIC FIELD DISTRIBUTIONS;

**15:15, M. Lino da Silva**, STATE-TO-STATE MODELING OF HIGH-SPEED, NONEQUILIBRIUM SHOCKED FLOWS.

**15:30 – 16:00, COFFEE BREAK**

#### **ROOM 1**

**16:00-17:00, Chair – F. Cheng**

**16:00, S. Hamaguchi**, LIQUID-PHASE CHEMICAL REACTIONS INDUCED BY LOW-TEMPERATURE ATMOSPHERIC-PRESSURE PLASMAS RELEVANT OT PLASMA MEDICINE;

**16:30, R. Bingham, J.T. Mendonça**, CLOSING REMARKS.

**16:45, CONFERENCE CLOSURE**

# ICPP2014 Abstracts

Abstracts are organized by type and within every type by topic, as stated bellow.

## Plenary Talks

### Invited Talks

**INV. - I – MCF** – Magnetically Confined Fusion

**INV. - II – LPB** – Laser and Particle Beams

**INV. - III – BAP** – Basic and Astrophysical Plasmas

**INV. - IV – LTP** – Low Temperature Plasmas

### Oral Presentations

**Oral Pres. - I – MCF** – Magnetically Confined Fusion

**ORAL PRES. - II – LPB** – Laser and Particle Beams

**ORAL PRES. - III – BAP** – Basic and Astrophysical Plasmas

**ORAL PRES. - IV – LTP** – Low Temperature Plasmas

### Posters

**POSTERS - I – MCF** – Magnetically Confined Fusion

**POSTERS - II – LPB** – Laser and Particle Beams

**POSTERS - III – BAP** – Basic and Astrophysical Plasmas

**POSTERS - IV – LTP** – Low Temperature Plasmas

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## INVITED TALKS

### Plenary talks

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<u>PL2</u>	R. O. Dendy	ION CYCLOTRON EMISSION FROM FUSION-BORN IONS IN LARGE TOKAMAK PLASMAS: FROM JET AND TFTR TO ITER
<u>PL3</u>	V.E. Fortov	NONIDEAL PLASMA - DENSITY AND CHARGE COUPLING
<u>PL4</u>	Katsumi Ida	EXPERIMENTAL PROGRESS OF TRANSPORT PHYSICS IN TOROIDAL PLASMAS

## INV. - I – MCF – Magnetically Confined Fusion

<u>MCF.I1</u>	<u>D. Bonfiglio</u> ; S. Cappello; M. Veranda; D. Escande; L. Chacon	HELICAL SELF-ORGANIZATION IN 3D MHD MODELING OF FUSION PLASMAS
<u>MCF.I2</u>	<u>R Ganesh</u> ; J Chowdhury; W X Wang; W W Lee; S Ethier; J. Manickam	LARGE SCALE PARTICLE-IN-CELL SIMULATION OF STEADY STATE MICROTURBULENCE IN TOKAMAKS
<u>MCF.I3</u>	<u>Z. O. Guimarães-Filho</u> ; C. H. S. Amador; W. A. H. Baquero; I. L. Caldas; A. G. Elfimov; J. I. Elizondo; T. Fernandes; A. A. Ferreira; A. M. M. Fonseca; R. M. O. Galvão; T. M. Germano; G. G. Grenfell; Yu. K. Kuznetsov; I. C. Nascimento; A. M. Oliveira; P. G. P. Puglia; A. P. Reis; G. Ronchi; L. F. Ruchko; W. P. de Sá; E. K. Sanada; J. H. F. Severo; V. C. Theodoro; D. L. Toufen	CHARACTERIZATION OF MHD INSTABILITIES IN TCABR TOKAMAK
<u>MCF.I4</u>	<u>N. Kasuya</u> ; M. Sasaki; S. Inagaki; K. Itoh; M. Yagi; S.-I. Itoh	SIMULATION STUDY OF HYSTERESIS IN THE FLUX-GRADIENT RELATION IN TURBULENT TRANSPORT
<u>MCF.I5</u>	<u>D. Klir</u> ; A.V. Shishlov; V. Kokshenev; P. Kubes; A. Labetsky; K. Rezac; B. Batobolotova; R. Chertzidov; J. Cikhardt; G. Dudkin; F. Fursov; B. Kovalchuk; J. Kravarik; N. Kurmaev; B. Nechaev; H. Orcikova; V. Padalko; N. Ratakhin; O.Sila; K. Turek	EFFICIENT GENERATION OF FUSION NEUTRONS IN RECENT Z-PINCH EXPERIMENTS
<u>MCF.I6</u>	<u>M. Hole</u> ; M. Fitzgerald; G. Dennis; S. Hudson; R. Dewar; G. von Nessi	ADVANCED MHD MODELS OF ANISOTROPY, FLOW AND CHAOTIC FIELDS
<u>MCF.I7</u>	<u>S. Krasheninnikov</u>	PHYSICS OF THE EDGE PLASMA AND FIRST WALL IN FUSION DEVICES: SYNERGISTIC EFFECTS
<u>MCF.I8</u>	<u>P J Morrison</u>	HAMILTONIAN AND ACTION PRINCIPLE DERIVATIONS OF REDUCED MAGNETOFLUID MODELS FOR PLASMA DYNAMICS – CONSEQUENCES
<u>MCF.I9</u>	<u>K. C. Shaing</u>	NEOCLASSICAL TRANSPORT THEORY FOR ORBITS WITH FINITE WIDTH IN TOKAMAKS
<u>MCF.I10</u>	<u>A. Smolyakov</u>	ZONAL FLOWS AND GEODESIC ACOUSTIC MODES
<u>MCF.I11</u>	<u>H. Tsuchiya</u> ; K. Ida; K. Nagaoka; M. Osakabe; K. Kamiya; H. Takahashi; Y. Suzuki; S. Ohdachi; H. Yamada	IMPACT OF STOCHASTIZATION OF MAGNETIC FIELDS ON INTERNAL TRANSPORT BARRIER IN LHD

## INV. - II – LPB – Laser and Particle Beams

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<a href="#"><u>LPB.I2</u></a>	R.A.Cairns; R. Bingham; R.G.M. Trines; P. Norreys	THE ROLE OF COLLISIONLESS SHOCKS IN SOME LASER-PLASMA PROBLEMS
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<a href="#"><u>LPB.I4</u></a>	<a href="#"><u>P Koester</u></a>	EXPERIMENTAL STUDIES ON FAST ELECTRON TRANSPORT IN RELATIVISTIC LASER-MATTER INTERACTIONS
<a href="#"><u>LPB.I5</u></a>	<a href="#"><u>A. Lifschitz</u></a> , C. Thaur, K. Ta Phuoc, S. Corde, E. Guillaume, A. Dopp, X. Davoine, R. Lehe, V. Malka	SELF-INJECTION AND STABILITY IN LASER-PLASMA ACCELERATORS
<a href="#"><u>LPB.I6</u></a>	<a href="#"><u>M. Murakami</u></a> ; M. Tanaka	PROTON BEAM GENERATION BY NANOTUBE ACCELERATOR
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<a href="#"><u>LPB.I9</u></a>	J.J. Santos, M. Bailly-Grandvaux, P. Forestier-Colleoni, L. Giuffrida, Ph. Nicolai, A. Poyè, S. Fujioka, Z. Zhang, J.-R. Marquès, J.-L. Dubois, J. Ribolzi, G. Schaumann, D. Batani, R. Bouillaud, M. Chevrot, J. Cross, R. Crowston, S. Dorard, J. Gazave, G. Gregori, S. Hulin, E. d'Humières, K. Ishihara, S. Kojima, Ph. Korneev, E. Loyez, A. Morace, H. Nishimura, O. Peyrusse, D. Raffestin, M. Roth, F. Serres, V. Tikhonchuk, Ph. Vacar, N. Woolsey	PULSED KTESLA DIPOLAR MAGNETIC FIELD GENERATION BY LASER AND APPLICATIONS
<a href="#"><u>LPB.I10</u></a>	W. Lu	TOWARDS DREAM BEAM: A PERSONAL PERSPECTIVE ON PLASMA BASED ACCELERATION



### INV. - III – BAP – Basic and Astrophysical Plasmas

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<u>BAP.I2</u>	<u>V. S. Filinov</u> , M. Bonitz, Yu. B. Ivanov, E. -M. Ilgenfritz, V. E. Fortov	COLOR PATH INTEGRAL EQUATION OF STATE OF THE QUARK-GLUON PLASMA AT NONZERO CHEMICAL POTENTIAL
<u>BAP.I3</u>	<u>C. Forest</u> ; C. Cooper; J. Wallace; M. Clark; K. Flanagan; I. Khalzov; J. Milhone; M.D. Nornberg; D. Weisberg; E. Zweibel	STIRRING UNMAGNETIZED PLASMA: DYNAMOS IN THE LAB
<u>BAP.I4</u>	<u>W. Gekelman</u> ; T. DeHaas; B. Van Compernelle; S. Vincena	EXPERIMENTAL INVESTIGATION OF THE EMERGENCE OF CHAOS IN THE DYNAMICS OF CURRENT SHEETS AND FLUX ROPES
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<u>BAP.I6</u>	<u>M.A.Mochalov</u> ; R.I.II'kaev; <u>V.E.Fortov</u> ; A.L.Mikhaylov	STRONG SHOCK WAVES AND EXTREME STATES OF MATTER
<u>BAP.I7</u>	<u>A. Raga</u>	WEAK SHOCK WAVES IN ASTROPHYSICAL AND GEOPHYSICAL FLOWS
<u>BAP.I8</u>	<u>D.C. Speirs</u> ; K. Ronald, R. Bingham; A.D.R. Phelps; S.L. McConville; K.M. Gillespie; R.A. Cairns; B.J. Kellett; I. Vorgul; A.W. Cross	SCALED LABORATORY EXPERIMENTS AND NUMERICAL SIMULATIONS OF AURORAL MAGNETOSPHERIC RADIO EMISSION
<u>BAP.I9</u>	<u>B. Zelener</u> ; A.A. Bobrov; M.A. Butlitsky; S.Y. Bronin; D.R. Khikhlukha; V.A. Sautenkov; S.A. Saakyan; E.A. Manykin; B.V. Zelener; V.E. Fortov	ULTRACOLD PLASMA AND RYDBERG ATOMS IN A MAGNETIC FIELD

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<u>LTP.I2</u>	<u>S.D. Baalrud</u>	EXTENSIONS AND APPLICATIONS OF THE BOHM CRITERION
<u>LTP.I3</u>	<u>A. Bogaerts</u> ; R. Aerts; S. Heijkers; S. Kolev; T. Kozak; R. Snoeckx; W. Somers; K. Van Laer; E. Neyts	COMBINED PLASMA CHEMISTRY AND PLASMA-SURFACE INTERACTIONS MODELING FOR CO <sub>2</sub> CONVERSION BY GAS DISCHARGE PLASMAS
<u>LTP.I4</u>	<u>P.J. Bruggeman</u>	ELECTRON DENSITIES AND ENERGIES OF FILAMENTARY ATMOSPHERIC PRESSURE PLASMAS
<u>LTP.I5</u>	<u>Amita Das</u> ; V. Singh Dharodi; S.K. Tiwari	COLLECTIVE BEHAVIOR OF STRONGLY COUPLED DUSTY PLASMA
<u>LTP.I6</u>	G. J. M. Hagelaar	LOW-TEMPERATURE PLASMA TRANSPORT ACROSS MAGNETIC FIELDS: FROM ELECTRIC PROPULSION AND NEGATIVE ION SOURCES TO TOKOMAK EDGE PLASMAS
<u>LTP.I7</u>	<u>S. Hamaguchi</u> ; K. Ikuse	LIQUID-PHASE CHEMICAL REACTIONS INDUCED BY LOW-TEMPERATURE ATMOSPHERIC-PRESSURE PLASMAS RELEVANT FOR PLASMA MEDICINE
<u>LTP.I8</u>	<u>Atsushi M. Ito</u> ; Y. Oda; H. Nakamura	MOLECULAR DYNAMICS AND DENSITY FUNCTIONAL SIMULATIONS FOR CLASSIFICATION OF HYDROGENATED AMORPHOUS CARBON
<u>LTP.I9</u>	<u>Tomohiro Nozaki</u> <sup>1</sup> ; Seigo Kameshima	NON-THERMAL PLASMA-ASSISTED FUEL CONVERSION FOR GREEN CHEMISTRY
<u>LTP.I10</u>	<u>Oleg F. Petrov</u> <sup>1</sup> ; M.M. Vasiliev <sup>1</sup> ; O.S. Vaulina <sup>1</sup> ; V.E. Fortov	TWO-DIMENSIONAL MELTING OF DUST CRYSTAL IN PLASMA: SIMULATIONS, DIAGNOSTICS AND EXPERIMENTS

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<u>MCF.O2</u>	<u>A.G.Elfimov</u>	GEODESIC MODE SPECTRUM MODIFIED BY THE ENERGETIC PARTICLES IN TOKAMAK PLASMAS
<u>MCF.O3</u>	E.A. Azizov; P.N. Alekseev; <u>G.G. Gladush</u> ; V.N. Dokuka; S.A. Subbotin; R.R. Khairutdinov; A.L. Shimkevich	COMPACT TOKAMAK PLASMA - NEUTRON SOURCE FOR HYBRID REACTOR FOR PRODUCING FUEL 233U
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<u>MCF.O6</u>	<u>R. B. Henriques</u> ; A. Malaquias; I. S. Nedzelskiy; C. Silva; H. Figueiredo; H. Fernandes	THE HEAVY ION BEAM DIAGNOSTIC FOR PLASMA FLUCTUATION STUDIES AT THE TOKAMAK ISTTOK
<u>MCF.O7</u>	G. R. Tynan; L. Cui; C. Brandt; S.Chakraborty Thakur; P.H. Diamond	OBSERVATION OF INWARD TURBULENT FLUX AGAINST DENSITY GRADIENT WITH SPATIALLY DISTINCT MULTIPLE FREE ENERGY SOURCES
<u>MCF.O8</u>	<u>J. Bernardo</u> ; C. Fenzi; C. Bourdelle; X. Garbet; Y. Camenen; F. Clairet; S. Cortes; J.P.S. Bizarro; Z.O. Guimaraes-Filho; P. Cottier; B. Chouli; H. Arnichand; J.-F. Artaud <sup>2</sup> T. Aniel; P. Lotte; J. Gunn	DENSITY IMPACT ON TOROIDAL ROTATION IN TORE SUPRA: EXPERIMENTAL OBSERVATIONS AND THEORETICAL INVESTIGATION

## ORAL PRES. - II – LPB – Laser and Particle Beams

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<u>LPB.O9</u>	<u>I. Potapenko</u> ; A. Brantov; V. Bychenkov; Stanislav Karpov	KINETIC SIMULATION OF HEAT TRANSPORT IN COLLISIONAL LASER PRODUCED PLASMAS
<u>LPB.O10</u>	<u>G. Fiore</u> ; R. Fedeles; U. de Angelis	A “SLINGSHOT” LASER-DRIVEN ACCELERATION MECHANISM OF PLASMA ELECTRONS

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<u>LPB.O11</u>	<u>G.A. Pavlov</u> ; N.A. Suskov; V.M. Treushnikov, R.V. Garanin; V.V. Treushnikov; N.V. Zhidkov	IMAGE REGISTRATION OF DENSE PLASMA CLOTS IN THE HARD X-RAY RANGE
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<u>LPB.O18</u>	<u>O. Renner</u> ; M. Smid; L. Antonelli; D. Batani; F. Barbato; T. Schlegel; F.B. Rosmej	K-SHELL X-RAY DIAGNOSIS OF HOT ELECTRON GENERATION IN LASER-IRRADIATED CU FOILS
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<u>LPB.O21</u>	<u>N.E. Andreev</u>	ELECTRON ACCELERATION AND X-RAYS GENERATION IN THE INTENSE LASER-MATTER INTERACTIONS
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## ORAL PRES. - III – BAP – Basic and Astrophysical Plasmas

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<u>BAP.O6</u>	<u>O. Pezzi</u> ; F. Valentini; P. Veltri	COLLISIONAL EFFECTS ON ION-ACOUSTIC SOLITARY WAVES PROPAGATION
<u>BAP.O7</u>	<u>A. Okamoto</u> ; H. Takahashi; T. Takahashi; S. Kitajima	INTERACTION BETWEEN ION BEAM AND RECOMBINING HYDROGEN PLASMA IN RADIO-FREQUENCY DISCHARGE DIVERTOR SIMULATING DEVICE
<u>BAP.O8</u>	<u>C.P. Olivier</u> ; S.K. Maharaj; R. Bharuthram	POLARITY SWITCHES OF ACOUSTIC SOLITONS IN MULTI-COMPONENT SPACE PLASMAS
<u>BAP.O9</u>	<u>G. Brodin</u> ; J. Zamanian; M. Marklund	EXCHANGE EFFECTS IN PLASMAS: QUANTUM KINETIC THEORY
<u>BAP.O10</u>	<u>A. Bret</u> , A. Stockem, R. Narayan and L. Silva	COLLISIONLESS WEIBEL SHOCKS: FULL FORMATION MECHANISM AND TIMING
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<u>BAP.O12</u>	<u>T. Kaladze</u> ; L.Z. Kahlon; L.V. Tsamalashvili	EXCITATION OF ZONAL FLOW AND MAGNETIC FIELD BY ULF PLANETARY WAVES IN THE EARTH'S IONOSPHERIC E-LAYER
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<u>BAP.O14</u>	<u>N. S. Saini</u> ; R. Kaur; Shalini	NONLINEAR KINETIC ALFVEN WAVES IN A TWO TEMPERATURE ELECTRONS PLASMAS
<u>BAP.O15</u>	<u>F. Tanjia</u> ; S. De Nicola; R. Fedele; T. Akhter; C. Castaldo	LONGITUDINAL CHARGE-PARTICLE DYNAMICS INDUCED BY AN ULTRA-SHORT RELATIVISTIC ELECTRON BUNCH IN PLASMAS
<u>BAP.O16</u>	B. Van Compernelle; G. J. Morales; J. E. Maggs; R. Sydora	INTERMITTENT PROFILE COLLAPSE IN A BASIC HEAT TRANSPORT EXPERIMENT
<u>BAP.O17</u>	<u>Ph. Korneev</u> ; E. D'Humieres; V. Tikhonchuk	LASER PRODUCED PLASMA INTERACTION WITH STRONG MAGNETIC FIELDS IN APPLICATIONS TO ASTROPHYSICAL STUDIES
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	C. Farrugia	ALIGNED MAGNETIC FIELD: THEORY AND OBSERVATION ASPECTS OF A NEAR EARTH SPACE PLASMA EVENT
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## ORAL PRES. - IV – LTP – Low Temperature Plasmas

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GAZAVE, J. – LPB.I9  
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