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|  | *1st EPS Conference on Plasma Diagnostics*  *April 14-17, 2015 - Villa Mondragone, Frascati, Italy*  *Organized by*  ***ENEA*** *and* ***Tor Vergata******University*** |  |

**PROGRAMME**

**Tuesday, April 14th 2015**

10.30-14.00 Registration and Welcome drink

14.00-14.30 Conference opening (Tony Donné, A. A. Tuccillo)

**Session A1 Chair: Tony Donné**

14.30-15.00 *“Radar sounding of the auroral plasma”*

**Cesar La Hoz**, (I1.1- Basic and Astrophysical Plasmas)

15.00-15.30 “*Combined electron cyclotron emission and heating for the suppression of magnetic islands In fusion plasmas*”

**Hugo Van den Brand, (**I1.2- Magnetic Confinement Fusion)

15.30-16.00 Coffee Break

**Session A2 Chair: Tony Donné**

16.00-16.20 *“Holographic Interferometry in Investigations of the Current Sheet Plasmas”*

**Anna Frank**, (O1.1-Basic and Astrophysical Plasmas)

16.20-16.40 “Microwave Imaging Reflectometry on DIII-D”

**Benjamin Tobias**, (O1.2 - Magnetic Confinement Fusion)

16.40-17.00 *“Recent developments in ultra-high speed and large area photomultiplier tubes”*

**James Milnes** (O1-3, Beam Plasma and Inertial Fusion)

17.00-17.20 *“Diagnostics concept development for a future demonstration fusion reactor”*

**Wolfang Biel** (O1.4, Magnetic Confinement Fusion)

**END**

**Wednesday, April 15th 2015**

**Session B1 Chair: Bob Bingham**

8.30-9.15 *“X-Ray Diagnostics: from Tokamaks to Applications”*

**Danilo Pacella** (T2.1 – Magnetic Confinement Fusion)

9.15-9.45 *“Time correlated single photon counting spectroscopy: principles and applications to single-filament discharges”*

**Thomas Hoder** (I2.1 - Low Temperature and Industrial Plasmas)

9.45-10.15 *“Spectro-polarimetrc optical systems for imaging plasma internal fields, structures and flows”*

**John Howard** (I2.2 – Magnetic Confinement Fusion)

10.15-10.45 *“VISAR as a fundamental tool to study extreme states of matter”*

**Michael Koenig** (I2.3 - Beam Plasma and Inertial Fusion)

10.45-11.15 Coffee Break (Poster on)

**Session B2 Chair: Michael Tatarakis**

11.15-11.45 *“Single-shot, high-frequency techniques for plasma-induced proton bunch self-modulation measurements”*

**Roxana Tarkeshian** (I2.4 - Beam Plasma and Inertial Fusion)

11.45-12.15 *“Correlative Enhanced Scattering in the upper hybrid resonance for study of micro and meso-scale wave phenomena in low-temperature and tokamak plasmas”*

**Evgeniy Gusakov** (I2.5 - Magnetic Confinement Fusion)

12.15-12.45 *“Neutron imaging development for inertial confinement fusion experiments”*

**Olivier Landoas** (I2.6 - Beam Plasma and Inertial Fusion)

**12.45-14.30 Lunch break**

**14.30-16.00 Poster session 1 and coffee break**

**Session B3 Chair: Hong Young Chang**

16.00-16.20 *“Complex interferometry principles and its potential in case of reference interferograms availability”*

**Milan Kalal** (O2.1 - Basic and Astrophysical Plasmas)

16.20-16.40 *“Development and Calibration of Electron Density Measurements in Argon and Helium Plasma Using Laser Collision-Induced Fluorescence”*

**Ed Barnat** (O2.2 - Low Temperature and Industrial Plasmas)

16.40-17.00 *“Measurements of strong pulsed magnetic field generated by laser and application to guided electron beam transport”*

**Mathieu Bailly-Grandvaux** (O2.3 - Beam Plasma and Inertial Fusion)

17.00-17.20 *“Development of the Cherenkov-type diagnostic system to study runaway electrons within tokamaks”*

**Marek Rabinski** (O2.4 – Magnetic Confinement Fusion)

**END**

**Thurdsday, April 16th 2015**

**Session C1 Chair: Svetlana Ratynskaia**

8.30-9.15 *“Diagnostics on complex (dusty) plasmas: a comprehensive survey”*

**Thomas Hubertus** (T3.1 - Low Temperature and Industrial Plasmas)

9.15-9.45*“Fast electron generation for the fast ignitor experiment on LFEX”*

**Yasunobu Arikawa (**I3.1 - Beam Plasma and Inertial Fusion**)**

9.45-10.15 *“Development of a dispersion interferometer for magnetic confinement plasma and its application to atmosphere pressure plasmas”*

**Tsuyoshi Akiyama** (I3.2 – Magnetic Confinement Fusion)

10.15-10.45 *“Detecting alfvanic electron acceleration using whistler-mode wave absorption”*

**Fred Skiff** (I3.3 - Basic and Astrophysical Plasmas)

10.45-11.15 Coffee Break (Poster on)

**Session C2 Chair: Anna Frank**

11.15-11.45 *“Imaging Challenges for the ITER Plasma Facing Components Protection”*

**Jean-Marcel Travere** (I3.4 – Magnetic Confinement Fusion)

11.45-12.15 *“Microwave diagnostics of plasma filaments produced by a high power femtosecond laser pulse”*

**Arie Zigler** (I3.5 - Beam Plasma and Inertial Fusion)

12.15-14.30 Lunch Break

**14.30-16.00 Poster session and Coffee Break**

**Session C3 Chair: Andrea Murari**

16.00-16.20 *“Highly resolved dust dynamics in fusion plasmas”*

**Andrey Shalpegin** (O3.1 - Low Temperature and Industrial Plasmas)

16.20-16.40 *“Conceptual design of a dust monitor diagnostic for ITER”*

**Evgeny Veshchev** (O3.2 – Magnetic Confinement Fusion)

16.40-17.00 *“Overview of the DIXI X-ray framing camera operating at the National Ignition Facility”*

**Terance Hilsabeck** (O3.3 - Beam Plasma and Inertial Fusion)

17.00-17.20 *“Advanced Disruption Predictor Based on the Locked Mode Signal: Application to JET”*

**Jesús Vega** (O3.4 – Magnetic Confinement Fusion)

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20.00-23.30 Social Dinner

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**Friday, April 17th 2015**

**Session D1 Chair: Dimitri Batani**

8.30-9.15 *“Review of recent advances in laser driven ion acceleration and applications”*

**Markus Roth** (T4.1 - Beam Plasma and Inertial Fusion)

9.15-9.45 *“Pump-Probe Spectroscopy for Temporal Characterization of Laser-Plasma XUV Pulses”*

**Shinichi Namba** (I4.1 - Basic and Astrophysical Plasmas)

9.45-10.15 *“Motional Stark Effect measurements of the local magnetic field in high temperature fusion plasmas”*

**Robert Wolf** (I4.2 – Magnetic Confinement Fusion)

10.15-10.45“*Laser induced flourescence diagnostics of atmospheric pressure plasma jets”*

**Giorgio Dilecce** (I4.3 - Low Temperature and Industrial Plasmas)

10.45-11.15 Coffee Break

**Session D2 Chair: Ralph Koenig**

11.15-11.45 *“Thomson scattering with multi-pass intra-cavity laser system for the study of fast changing structures in fusion plasma”*

**Mikhail Kantor** (I4.4 – Magnetic Confinement Fusion)

11.45-12.15 *“Diagnostic systems for the Laser MegaJoule (LMJ)”*

**Tony Caillaud** (I4.65- Beam Plasma and Inertial Fusion)

12.15-12.35 *“In situ monitoring of CF2 radicals in dielectric etching plasmas for semiconductor processing using quantum cascade laser absorption spectroscopy”*

**Norbert Lang** (O4.1 - Low Temperature and Industrial Plasmas

12.35-14.20 Lunch Break

**Session D3 Chair: Angelo A. Tuccillo**

14.20-14.40 *“Nitrogen as a spectroscopic tracer for measuring plasma flows in the high-field side SOL of ASDEX Upgrade”*

**Juuso Karhunen** (O4.2 – Magnetic Confinement Fusion)

14.40-15.00 *“*Investigation Of Effective Sheath Width Measurement Around Cutoff Probe*”*

**Dae Woong Kim** (O4.3 - Low Temperature and Industrial Plasmas)

15.00-15.20 *“The Set of Diagnostics for the First Operation Campaign of the Wendelstein 7-X Stellarator”*

**Ralf Koenig** (O4.4 – Magnetic Confinement Fusion)

15.20-15.40 *“West SXR tomographic system design using gem detector”*

**Didier Mazon** (O4.5 – Magnetic Confinement Fusion)

**15:40-16.00 Conference closing**