

1st International Conference on Frontiers in Diagnostic Technologies

Report of Contributions

Contribution ID: 1

Type: **Poster**

Lidar fluorosensor technique for remote and in-situ seawater quality monitoring

Wednesday, 25 November 2009 16:00 (1 minute)

Primary author: Dr PALUCCI, Antonio (Enea)

Co-authors: Dr COLAO, Francesco (ENEA); Dr FIORANI, Luca (ENEA); Dr SIGHICELLI, Maria (ENEA); Dr FANTONI, Roberta (ENEA)

Presenter: Dr PALUCCI, Antonio (Enea)

Session Classification: Poster Session and Coffee break

Contribution ID: 2

Type: **Poster**

LASER SCANNING FLOW CYTOMETER FOR SMALL PARTICLES CHARACTERIZATION AND IDENTIFICATION

Wednesday, 25 November 2009 16:02 (1 minute)

Primary author: Dr PALUCCI, Antonio (Enea)

Co-authors: Dr FIORANI, Luca (ENEA); Dr SIGHICELLI, Maria (ENEA); Dr SPIZZICHINO, Valeria (ENEA)

Presenter: Dr PALUCCI, Antonio (Enea)

Session Classification: Poster Session and Coffee break

Contribution ID: 3

Type: **Poster**

Optical diagnostic of the Earth's atmosphere by laser radar

Wednesday, 25 November 2009 16:03 (1 minute)

Primary author: Dr FIORANI, Luca (ENEA)

Co-authors: Dr PALUCCI, Antonio (ENEA); Dr COLAO, Francesco (ENEA)

Presenter: Dr FIORANI, Luca (ENEA)

Session Classification: Poster Session and Coffee break

Contribution ID: 4

Type: **not specified**

The MAGIC-5 CAD for nodule detection in low dose and thin slice lung CT

Friday, 27 November 2009 11:00 (30 minutes)

Primary author: Dr CERELLO, Piergiorgio (TO)

Presenter: Dr CERELLO, Piergiorgio (TO)

Session Classification: Imaging

Contribution ID: 5

Type: **Poster**

A spectrometer for pulsed and continuous electron and photon radiation

Wednesday, 25 November 2009 16:01 (1 minute)

Primary author: Dr BEHRENS, Rolf (PTB Braunschweig)

Presenter: Dr BEHRENS, Rolf (PTB Braunschweig)

Session Classification: Poster Session and Coffee break

Contribution ID: 6

Type: **Poster**

On the distribution function of electron spectra from plasmas

Wednesday, 25 November 2009 16:04 (1 minute)

Primary author: Dr BEHRENS, Rolf (PTB Braunschweig)

Presenter: Dr BEHRENS, Rolf (PTB Braunschweig)

Session Classification: Poster Session and Coffee break

Contribution ID: 7

Type: **not specified**

A Spatially Imaging High Resolution X-ray Spectrometer System for the Alcator C-Mod Tokamak

Thursday, 26 November 2009 10:00 (30 minutes)

Primary author: Dr RICE, John (MIT PSFC)

Presenter: Dr RICE, John (MIT PSFC)

Session Classification: Spectroscopy

Contribution ID: 8

Type: **not specified**

Welcome

Wednesday, 25 November 2009 09:15 (15 minutes)

Presenters: RENIERI, Alberto (ENEA); Dr ORSITTO, Francesco Paolo (Associazione Euratom-ENEA, Frascati); CALVETTI, Mario (LNF)

Session Classification: Measurements of temperature and density

Contribution ID: 9

Type: **not specified**

Ultrashort fs-scale electron bunch production and characterization

Wednesday, 25 November 2009 18:45 (30 minutes)

Presenter: SERAFINI, Luca (MI)

Session Classification: Evening Session on " New Techniques of Acceleration

Contribution ID: **10**

Type: **not specified**

X-ray imaging and spectroscopy of laboratory plasmas

Presenter: GIZZI, Leonida Antonio (PI)

Contribution ID: 11

Type: **not specified**

Measurements of Temperature and Density in Magnetic Confinement Fusion Plasmas

Contribution ID: **12**

Type: **not specified**

Talk5

Contribution ID: 13

Type: **not specified**

Collective Thomson Scattering Capabilities to Diagnose Fusion Plasmas

Contribution ID: 14

Type: **not specified**

Measurements of Velocity Distribution Function of Fast Electrons in Inertial Fusion Experiments

Contribution ID: 15

Type: **not specified**

Discussion on Measurements of temperature and density

Contribution ID: **16**

Type: **not specified**

Talk6

Contribution ID: 17

Type: **not specified**

Talk1

Contribution ID: **18**

Type: **not specified**

Talk2

Contribution ID: **19**

Type: **not specified**

Talk3

Contribution ID: **20**

Type: **not specified**

Talk3

Contribution ID: **21**

Type: **not specified**

Talk4

Contribution ID: 22

Type: **not specified**

Talk5

Contribution ID: 23

Type: **not specified**

Talk6

Contribution ID: 24

Type: **not specified**

Discussion on Energy Spectrum of particles

Contribution ID: 25

Type: **not specified**

The Instrument PAMELA for Antimatter and Dark Matter search in Space

Presenter: PICOZZA, Piergiorgio (RM2)

Contribution ID: 26

Type: **not specified**

Fast Particle Measuremets and Apparatus for Next Generation Fusion Devices

Contribution ID: 27

Type: **not specified**

Diagnostics of High Energy Beam particle Accelerators

Contribution ID: **28**

Type: **not specified**

Talk4

Contribution ID: 29

Type: **not specified**

Talk5

Contribution ID: **30**

Type: **not specified**

Talk6

Contribution ID: **31**

Type: **not specified**

Discussion on Energy Spectrum of particles

Contribution ID: 32

Type: **not specified**

Diagnostics in Fusion Research

Friday, 27 November 2009 10:00 (30 minutes)

Primary author: Dr WELLER, Arthur (Max-Planck-Institut fuer Plasmaphysik)

Presenter: Dr WELLER, Arthur (Max-Planck-Institut fuer Plasmaphysik)

Session Classification: Imaging

Contribution ID: 33

Type: **not specified**

Poster Session and Coffee break

Contribution ID: 34

Type: **not specified**

Energy spectrum of particles

Contribution ID: 35

Type: **not specified**

Energy spectrum of particles

Contribution ID: 36

Type: **not specified**

Particle Energy Spectrum in Laser Fusion (Iper)

Contribution ID: 37

Type: **not specified**

Neutron Spectroscopy and Imaging

Contribution ID: **38**

Type: **not specified**

Particle Detection with Medipix

Contribution ID: 39

Type: **not specified**

Discussione on Energy spectrum of particles

Contribution ID: **40**

Type: **not specified**

Talk1

Contribution ID: 41

Type: **not specified**

EUV-XUV Spectroscopy Technology and Instrumentations

Contribution ID: 42

Type: **not specified**

Talk2

Contribution ID: 43

Type: **not specified**

Atomic physics database

Contribution ID: 44

Type: **not specified**

X-ray Spectroscopy in Astrophysics

Contribution ID: 45

Type: **not specified**

Applications of Multilayers Optics

Contribution ID: 46

Type: **not specified**

Spectroscopy of Gamma Rays

Contribution ID: 47

Type: **not specified**

EUV Multilayer coated mirros

Presenter: Dr PELIZZO, Maria Guglielmina (CNR-INFM LUXOR)

Contribution ID: 48

Type: **not specified**

Review of Analysis of Large DB in JET Fusion Data

Contribution ID: 49

Type: **not specified**

Review of Analysis of Large Database in High Energy Physics

Presenter: Dr BRUN, Rene (CERN)

Contribution ID: **50**

Type: **not specified**

Lustre at CEA/DAM

Contribution ID: 51

Type: **not specified**

HDF5 and its use in variousfield (expecially Astro and AstroParticle)

Contribution ID: 53

Type: **not specified**

Data Preservation and Long Term Accessibility

Presenter: Dr NEAL, Homer (SLAC)

Contribution ID: 54

Type: **not specified**

Discussion on Data Mining

Contribution ID: 55

Type: **not specified**

Talk1

Contribution ID: 56

Type: **not specified**

Talk1

Presenter: Dr WELLER, Arthur (Max-Planck-Institut fuer Plasmaphysik)

Contribution ID: 57

Type: **Invited Talk**

Imaging in Astrophysics

Presenter: Prof. STRÜDER, Lothar (MPE-Semiconductor Laboratory)

Contribution ID: 58

Type: **not specified**

Diagnostic in Fusion Research

Presenter: Dr WELLER, Arthur (Max-Planck-Institut fuer Plasmaphysik)

Contribution ID: 59

Type: **not specified**

Talk4

Contribution ID: **60**

Type: **not specified**

Optoacoustic Medical Imaging Technology

Contribution ID: **61**

Type: **not specified**

X-ray spectroscopy

Contribution ID: 62

Type: **not specified**

Diagnostic in Hadron Therapy

Contribution ID: 63

Type: **Poster**

Deconvolution of the spectral line profiles for the plasma temperature estimation

Wednesday, 25 November 2009 16:05 (1 minute)

Primary author: Mrs ZORINA, Natalja (Institute of Atomic Physics and Spectroscopy, University of Latvia)

Co-authors: Dr SKUDRA, Atis (Institute of Atomic Physics and Spectroscopy, University of Latvia); Dr REVALDE, Gita (Institute of Atomic Physics and Spectroscopy, University of Latvia)

Presenter: Mrs ZORINA, Natalja (Institute of Atomic Physics and Spectroscopy, University of Latvia)

Session Classification: Poster Session and Coffee break

Contribution ID: 64

Type: **not specified**

EUV-XUV Spectroscopic Technology and Instrumentation

Thursday, 26 November 2009 09:00 (30 minutes)

Primary author: Prof. NICOLOSI, PIERGIORGIO (University of Padova)

Presenter: Prof. NICOLOSI, PIERGIORGIO (University of Padova)

Session Classification: Spectroscopy

Contribution ID: 65

Type: **not specified**

Introduction to Spectroscopy Diagnostics

Contribution ID: 66

Type: **not specified**

The Instrument PAMELA for Antimatter and Dark Matter search in Space

Wednesday, 25 November 2009 15:30 (30 minutes)

Primary author: PICOZZA, Piergiorgio (RM2)

Presenter: PICOZZA, Piergiorgio (RM2)

Session Classification: Energy spectrum of particles - Part I

Contribution ID: 67

Type: **not specified**

Review of Analysis of Large Data Bases in High Energy Physics

Thursday, 26 November 2009 15:00 (30 minutes)

Primary author: Dr BRUN, Rene (CERN Geneva)

Presenter: Dr BRUN, Rene (CERN Geneva)

Session Classification: Data Mining 1

Contribution ID: 68

Type: **not specified**

Measurements of Temperature and Density in Magnetic Confinement Fusion Devices

Wednesday, 25 November 2009 09:30 (30 minutes)

Primary author: Dr UDINTSEV, Victor (ITER Organisation)

Presenter: Dr UDINTSEV, Victor (ITER Organisation)

Session Classification: Measurements of temperature and density

Contribution ID: 69

Type: **not specified**

Some Electron Cloud Diagnostics of High Energy Particles Accelerators

Wednesday, 25 November 2009 15:00 (30 minutes)

Primary author: Dr BAGLIN, Vincent (CERN)

Presenter: Dr BAGLIN, Vincent (CERN)

Session Classification: Energy spectrum of particles - Part I

Contribution ID: 70

Type: **not specified**

Machine Learning for the Identification of Scaling Laws and Dynamical Systems directly from data in Magnetic Confinement Fusion

Thursday, 26 November 2009 14:30 (30 minutes)

Primary author: Dr MURARI, Andrea (Consorzio RFX)

Co-authors: Dr PATANÈ, Dario (Dipartimento di Ingegneria Elettrica Elettronica e dei Sistemi-Università degli Studi di Catania, 95125 Catania, Italy); Dr MAZON, Didier (Association EURATOM-CEA, CEA Cadarache, 13108 Saint-Paul-lez-Durance, France); Dr VAGLIASINDI, Guido (Dipartimento di Ingegneria Elettrica Elettronica e dei Sistemi-Università degli Studi di Catania, 95125 Catania, Italy); Dr VEGA, Jesús (Asociación EURATOM-CIEMAT para Fusión, CIEMAT, Madrid, Spain)

Presenter: Dr MURARI, Andrea (Consorzio RFX)

Session Classification: Data Mining 1

Contribution ID: 71

Type: **not specified**

Advance Gamma Tracking Array: next generation Gamma-ray Spectroscopy

Thursday, 26 November 2009 09:30 (30 minutes)

Primary author: Dr BOSTON, Andrew (University of Liverpool)

Presenter: Dr BOSTON, Andrew (University of Liverpool)

Session Classification: Spectroscopy

Contribution ID: 72

Type: **Poster**

Determination of helium number densities in high-frequency electrodeless plasma

Wednesday, 25 November 2009 16:06 (1 minute)

Primary author: Ms GAVARE, Zanda (Institute of Atomic Physics and Spectroscopy)

Presenter: Ms GAVARE, Zanda (Institute of Atomic Physics and Spectroscopy)

Session Classification: Poster Session and Coffee break

Contribution ID: 73

Type: **not specified**

X-ray spectroscopy in Astrophysics

Thursday, 26 November 2009 11:30 (30 minutes)

Primary author: Dr LUIGI, Piro (IASF-Roma/INAF)

Presenter: Dr LUIGI, Piro (IASF-Roma/INAF)

Session Classification: Spectroscopy

Contribution ID: 74

Type: **Poster**

Calibration of portal imaging device for radiotherapy in-vivo dosimetry

Wednesday, 25 November 2009 16:07 (1 minute)

Primary author: Prof. PIERMATTEI, Angelo (RM3)

Co-authors: Dr FIDANZIO, Andrea (UCSC); Dr SABATINO, Domenico (UCSC); Dr GRECO, Francesca (UCSC); Dr GARGIULO, Laura (UCSC); Dr CILLA, Savino (UCSC)

Presenter: Prof. PIERMATTEI, Angelo (RM3)

Session Classification: Poster Session and Coffee break

Contribution ID: 75

Type: **Poster**

Study of electron beams within ISTTOK tokamak by means of a multi-channel Cherenkov detector; their correlation with hard X-rays

Wednesday, 25 November 2009 16:09 (1 minute)

Primary author: Dr JAKUBOWSKI, Lech (The Andrzej Soltan Institute for Nuclear Studies)

Co-authors: SILVA, Carlos (Association Euratom/IST, , Instituto Superior Técnico, Lisboa, Portugal); FERNANDES, Horacio (Association Euratom/IST, , Instituto Superior Técnico, Lisboa, Portugal); ZEBROWSKI, Jaroslaw (The Andrzej Soltan Institute for Nuclear Studies, 05-400 Otwock-Swierk, Poland); MALINOWSKI, Karol (The Andrzej Soltan Institute for Nuclear Studies, 05-400 Otwock-Swierk, Poland); JAKUBOWSKI, Marcin (The Andrzej Soltan Institute for Nuclear Studies, 05-400 Otwock-Swierk, Poland); SADOWSKI, Marek J. (The Andrzej Soltan Institute for Nuclear Studies, 05-400 Otwock-Swierk, Poland); RABINSKI, Marek (The Andrzej Soltan Institute for Nuclear Studies, 05-400 Otwock-Swierk, Poland); DUARTE, Paulo (Association Euratom/IST, , Instituto Superior Técnico, Lisboa, Portugal); PLYUSNIN, Vladislav V. (Association Euratom/IST, , Instituto Superior Técnico, Lisboa, Portugal)

Presenter: Dr JAKUBOWSKI, Lech (The Andrzej Soltan Institute for Nuclear Studies)

Session Classification: Poster Session and Coffee break

Contribution ID: 76

Type: **Poster**

Feasibility study of ECE measurement in JT-60SA

Wednesday, 25 November 2009 16:10 (1 minute)

Primary author: Dr SATO, Masayasu (Japan Atomic Energy Agency)

Co-author: Dr ISAYAMA, Akihiko (Japan Atomic Energy Agency)

Presenter: Dr SATO, Masayasu (Japan Atomic Energy Agency)

Session Classification: Poster Session and Coffee break

Contribution ID: 77

Type: **not specified**

Applications of Multilayer optics

Thursday, 26 November 2009 12:00 (25 minutes)

Primary author: Prof. WANG, Zhanshan (Institute of Precision Optical Engineering, Department of Physics, Tongji University)

Co-authors: Dr MU, Baozhong (Institute of Precision Optical Engineering, Department of Physics, Tongji University); Dr ZHU, Jingtao (Institute of Precision Optical Engineering, Department of Physics, Tongji University)

Presenter: Prof. WANG, Zhanshan (Institute of Precision Optical Engineering, Department of Physics, Tongji University)

Session Classification: Spectroscopy

Contribution ID: 78

Type: **Poster**

Diagnostics for the Physics of Energetic Particles on HL-2A

Wednesday, 25 November 2009 16:11 (1 minute)

Primary author: Prof. DING, xuantong (southwestern institute of physics)

Presenter: Prof. DING, xuantong (southwestern institute of physics)

Session Classification: Poster Session and Coffee break

Contribution ID: 79

Type: **Poster**

Mach probe measurement of peripheral plasma rotation evolution during LH transition and ITB decay in the TUMAN-3M tokamak

Wednesday, 25 November 2009 16:12 (1 minute)

Primary author: Dr ASKINAZI, Leonid (Ioffe Institute)

Co-authors: Dr SMIRNOV, Alexander (Ioffe Institute); Dr TUKACHINSKY, Alexander (Ioffe Institute); Dr VILDJUNAS, Maxim (Ioffe Institute); Dr ZHUBR, Nikolai (Ioffe Institute); Dr KRIKUNOV, Sergei (Ioffe Institute); Dr LEBEDEV, Sergei (Ioffe Institute); Dr KORNEV, Vladimir (Ioffe Institute)

Presenter: Dr ASKINAZI, Leonid (Ioffe Institute)

Session Classification: Poster Session and Coffee break

Contribution ID: **80**

Type: **not specified**

Collective Thomson Scattering Capabilities to Diagnose Fusion plasmas

Wednesday, 25 November 2009 12:00 (30 minutes)

Primary author: Dr KORSHOLM, Søren Bang (Risø DTU National Laboratory for Sustainable Energy)

Presenter: Dr KORSHOLM, Søren Bang (Risø DTU National Laboratory for Sustainable Energy)

Session Classification: Measurements of temperature and density

Contribution ID: **81**

Type: **Poster**

Diagnostics of the influence of levitating microparticles on the radiofrequency argon plasma

Wednesday, 25 November 2009 16:13 (1 minute)

Primary author: Dr PUSTYLNİK, Mikhail (Max-Planck-Institut für Extraterrestrische Physik)

Co-authors: Dr KLUMOV, Boris (Max-Planck-Institut für Extraterrestrische Physik); Prof. MORFILL, Gregor (Max-Planck-Institut für Extraterrestrische Physik); Mr MITIC, Slobodan (Max-Planck-Institut für Extraterrestrische Physik)

Presenter: Dr PUSTYLNİK, Mikhail (Max-Planck-Institut für Extraterrestrische Physik)

Session Classification: Poster Session and Coffee break

Contribution ID: 82

Type: **Poster**

Soft X-Ray measurements in magnetic fusion plasma physics

Wednesday, 25 November 2009 16:14 (1 minute)

Primary author: Dr BOTRUGNO, Antonio (Associazione Euratom-ENEA sulla Fusione, 00044 Frascati, Italy)

Co-authors: Dr ROMANO, Afra (Associazione Euratom-ENEA sulla Fusione, 00044 Frascati, Italy); Dr PACELLA, Danilo (Associazione Euratom-ENEA sulla Fusione, 00044 Frascati, Italy); Dr MAZON, Didier (Association EURATOM-CEA); Dr GABELLIERI, Lori (Associazione Euratom-ENEA sulla Fusione, 00044 Frascati, Italy)

Presenter: Dr BOTRUGNO, Antonio (Associazione Euratom-ENEA sulla Fusione, 00044 Frascati, Italy)

Session Classification: Poster Session and Coffee break

Contribution ID: **83**

Type: **Poster**

Neutron Radiography

Wednesday, 25 November 2009 16:15 (1 minute)

Primary author: Dr BOTRUGNO, Antonio (Associazione Euratom-ENEA sulla Fusione, CR Frascati, 00044 Frascati, Italy)

Co-authors: Dr ANDREOLI, Fabrizio (ENEA, TRIGA Reactor, CR Casaccia, 00123 S.Maria di Galeria, Italy); Dr PALOMBA, Mario (ENEA, TRIGA Reactor, CR Casaccia, 00123 S.Maria di Galeria, Italy); Dr ROSA, Roberto (ENEA, TRIGA Reactor, CR Casaccia, 00123 S.Maria di Galeria, Italy)

Presenter: Dr BOTRUGNO, Antonio (Associazione Euratom-ENEA sulla Fusione, CR Frascati, 00044 Frascati, Italy)

Session Classification: Poster Session and Coffee break

Contribution ID: **84**

Type: **Poster**

Photoacoustic spectroscopy of standard explosives in the MIR region

Wednesday, 25 November 2009 16:16 (1 minute)

Primary author: Dr GIUBILEO, Gianfranco (ENEA)

Co-author: Dr PUIU, Adriana (Roma Tor Vergata University)

Presenter: Dr GIUBILEO, Gianfranco (ENEA)

Session Classification: Poster Session and Coffee break

Contribution ID: 85

Type: **Poster**

Diagnostic technology for early detection of pathogen infestation

Wednesday, 25 November 2009 16:17 (1 minute)

Primary author: Dr PUIU, Adriana (Roma Tor Vergata University)

Co-authors: Dr LAI, Antonia (ENEA); Dr PICCINELLI, Delinda (ENEA); Dr GIUBILEO, Gianfranco (ENEA)

Presenter: Dr PUIU, Adriana (Roma Tor Vergata University)

Session Classification: Poster Session and Coffee break

Contribution ID: **86**

Type: **not specified**

Measurement Techniques of fast electron velocity distribution function

Contribution ID: 87

Type: **Poster**

Single Crystal Artificial Diamond Detectors for VUV and soft X-Rays Measurements on JET Thermonuclear Fusion Plasma.

Wednesday, 25 November 2009 16:18 (1 minute)

Primary author: Dr PILLON, mario (ENEA Frascati)

Co-authors: Prof. MILANI, enrico (university of tor vergata); Prof. MARINELLI, marco (university of tor vergata); Dr ANGELONE, maurizio (enea)

Presenter: Dr PILLON, mario (ENEA Frascati)

Session Classification: Poster Session and Coffee break

Contribution ID: 88

Type: **Poster**

Single Crystal Artificial Diamond Detectors for VUV and soft X-Rays Measurements on JET Thermonuclear Fusion Plasma.

Primary author: Dr PILLON, mario (ENEA Frascati)

Co-authors: Dr MURARI, andrea (Consorzio RFX); Dr VERONA, claudio (university of tor vergata); Prof. MILANI, enrico (university of tor vergata); Prof. VERONA RINATI, gianluca (university of tor vergata); Dr PRESTOPINO, giuseppe (university of tor vergata); Dr COFFEY, ivor (Queen's University, Belfast); Prof. MARINELLI, marco (university of tor vergata); Dr ANGELONE, maurizio (enea); Dr TARTONI, nicola (Diamond Light Source, Harwell Science and Innovation Campus)

Presenter: Dr PILLON, mario (ENEA Frascati)

Contribution ID: **89**

Type: **Poster**

Spherically bent crystal for x-ray imaging of laser produced plasmas

Wednesday, 25 November 2009 16:20 (1 minute)

Primary author: Mr MORACE, Alessio (University of Milano Bicocca)

Co-author: Prof. BATANI, Dimitri (Università Milano Bicocca)

Presenter: Mr MORACE, Alessio (University of Milano Bicocca)

Session Classification: Poster Session and Coffee break

Contribution ID: 90

Type: **Poster**

Detection and tracking of snow flakes in JET plasma video images

Wednesday, 25 November 2009 16:21 (1 minute)

Primary author: Mr LUKYANITSA, Andrey (Moscow State University)

Co-authors: Mr MURARI, Andrea (Consorzio RFX-Associazione EURATOM ENEA per la Fusione); Mr CHERTOK, Andrei (Moscow State University); Mr SUCHKOV, Egor (Moscow State University); Mr ZAITSEV, Fedor (Moscow State University)

Presenter: Mr LUKYANITSA, Andrey (Moscow State University)

Session Classification: Poster Session and Coffee break

Contribution ID: 91

Type: **Poster**

LIBS spectroscopy of the impurity concentration depth profile in wall tiles

Wednesday, 25 November 2009 16:22 (1 minute)

Primary author: Prof. TALE, Ivars (Institute of Solid State Physics University Latvia)

Co-author: Mr VOITKANS, Andris (Researcher)

Presenter: Prof. TALE, Ivars (Institute of Solid State Physics University Latvia)

Session Classification: Poster Session and Coffee break

Contribution ID: 92

Type: **Poster**

High Reflective Mirrors For In-Vessel Applications In ITER

Wednesday, 25 November 2009 16:23 (1 minute)

Primary author: Mr RAZDOBARIN, Aleksei (Ioffe Physical-Technical Institute)

Co-authors: SITNIKOVA, A.A. (Ioffe Physico-Technical Institute, St.Petersburg); KIRILENKO, D.A. (Ioffe Physico-Technical Institute, St.Petersburg,); MUKHIN, E.E. (Ioffe Physico-Technical Institute); KURSKIEV, G.S. (Ioffe Physico-Technical Institute); ARKHIPOV, I.I. (Frumkin Institute of Physical Chemistry and Electrochemistry); RYZHKOV, I.V. (IPP NSC KIPT); KOCHERGIN, M.M. (Ioffe Physico-Technical Institute); ZALAVUTDINOV, R.Kh. (Frumkin Institute of Physical Chemistry and Electrochemistry); TOLSTYAKOV, S.Yu. (Ioffe Physico-Technical Institute); KONOVALOV, V.G. (IPP NSC KIPT); BUKHOVETS, V.L. (Frumkin Institute of Physical Chemistry and Electrochemistry); BONDARENKO, V.N. (IPP NSC KIPT); VOITSENYA, V.S. (IPP NSC KIPT); SEMENOV, V.V. (Ioffe Physico-Technical Institute); ZAKHAROV, A.P. (Frumkin Institute of Physical Chemistry and Electrochemistry); GORODETSKY, A.E. (Frumkin Institute of Physical Chemistry and Electrochemistry)

Presenter: Mr RAZDOBARIN, Aleksei (Ioffe Physical-Technical Institute)

Session Classification: Poster Session and Coffee break

Contribution ID: 93

Type: **Poster**

Observation of High Energy epithermal Electrons by Using Small-Angle Thomson Scattering

Wednesday, 25 November 2009 16:24 (1 minute)

Primary author: Dr POPOV, Sergei (Budker Institute of Nuclear Physics)

Co-authors: Prof. BURDAKOV, Alexander (Novosibirsk State Technical University); Mr ROVENSKIKH, Andrei (Budker Institute of Nuclear Physics); Prof. VYACHESLAVOV, Leonid (Budker Institute of Nuclear Physics); Mr IVANTSIVSKII, Maxim (Budker Institute of Nuclear Physics); Dr POLOSATKIN, Sergey (Budker Institute of Nuclear Physics); Dr POSTUPAEV, Vladimir (Novosibirsk State University)

Presenter: Dr POPOV, Sergei (Budker Institute of Nuclear Physics)

Session Classification: Poster Session and Coffee break

Contribution ID: 94

Type: **Poster**

Non-statistical population of magnetic sub-levels of hydrogen beam in fusion plasmas

Wednesday, 25 November 2009 16:25 (1 minute)

Primary author: Dr MARCHUK, Oleksandr (Institut fuer Plasmaphysik-Energieforschung, Forschungszentrum Juelich)

Co-authors: Dr URNOV, A. (P N Lebedev Institute of RAS, Leninskii pr. 53, Moscow, 119991, Russia); DELABIE, E. (FOM-Rijnhuizen, EURATOM-FOM, NL-3430 BE Nieuwegein, The Netherlands); Prof. JANEV, R. K. (Institut fuer Plasmaphysik-Energieforschung, Forschungszentrum Juelich); Dr BIEL, W. (Institut fuer Plasmaphysik-Energieforschung, Forschungszentrum Juelich); Dr RALCHENKO, Yu. (Atomic Physics Division, National Institute of Standards and Technology, Gaithersburg, MD 20886, USA)

Presenter: Dr MARCHUK, Oleksandr (Institut fuer Plasmaphysik-Energieforschung, Forschungszentrum Juelich)

Session Classification: Poster Session and Coffee break

Contribution ID: 95

Type: **not specified**

Atomic Physics Database

Thursday, 26 November 2009 11:00 (20 minutes)

Primary author: Prof. SUMMERS, Hugh (University of Strathclyde)

Presenter: Prof. SUMMERS, Hugh (University of Strathclyde)

Session Classification: Spectroscopy

Contribution ID: 96

Type: **Poster**

Kinetic Energy Measurement of Hydrogen in LHD Peripheral Plasma with a Multi-wavelength-range Fine-resolution Spectrometer

Wednesday, 25 November 2009 16:26 (1 minute)

Primary author: Mr FUJII, Keisuke (Department of Mechanical Engineering and Science, Graduate School of Engineering, Kyoto University)

Co-authors: Dr IWAMAE, Atsushi (Naka Fusion Institute, Japan Atomic Energy Agency); Mr MIZUSHIRI, Keisuke (Department of Mechanical Engineering and Science, Graduate School of Engineering, Kyoto University); Prof. HASUO, Masahiro (Department of Mechanical Engineering and Science, Graduate School of Engineering, Kyoto University); Dr GOTO, Motoshi (National Institute for Fusion Science); Prof. MORITA, Shigeru (National Institute for Fusion Science); Dr SHIKAMA, Taiichi (Department of Mechanical Engineering and Science, Graduate School of Engineering, Kyoto University); Ms NISHIOKA, Tomomi (Department of Mechanical Engineering and Science, Graduate School of Engineering, Kyoto University)

Presenter: Mr FUJII, Keisuke (Department of Mechanical Engineering and Science, Graduate School of Engineering, Kyoto University)

Session Classification: Poster Session and Coffee break

Contribution ID: 97

Type: **Poster**

Spectra of Highly Charged Tungsten Ions in a JT-60 Plasma at an ITER-relevant Electron Temperature

Wednesday, 25 November 2009 16:27 (1 minute)

Primary author: Mr YANAGIBAYASHI, Jun (Kyoto University Graduate School of Engineering)

Co-authors: Dr IWAMAE, Atsushi (Japan Atomic Energy Agency); Dr KUBO, Hiroataka (Japan Atomic Energy Agency); Dr ITAMI, Kiyoshi (Japan Atomic Energy Agency); Prof. HASUO, Masahiro (Kyoto University Graduate School of Engineering); Mr NAKANO, Tomohide (Japan Atomic Energy Agency)

Presenter: Mr YANAGIBAYASHI, Jun (Kyoto University Graduate School of Engineering)

Session Classification: Poster Session and Coffee break

Contribution ID: 98

Type: **Poster**

Construction of coronal models for H₂ d-a and I-B transitions for the evaluation of ro-vibrational temperatures

Wednesday, 25 November 2009 16:28 (1 minute)

Primary author: Dr SHIKAMA, Taiichi (Department of Mechanical Engineering and Science, Graduate School of Engineering, Kyoto University)

Co-authors: Prof. KADO, Shinichiro (Department of Nuclear Engineering and Management, School of Engineering, The University of Tokyo); Mr KENJI, Suzuki (Department of Nuclear Engineering and Management, School of Engineering, The University of Tokyo); Mr IIDA, Youhei (Department of Nuclear Engineering and Management, School of Engineering, The University of Tokyo)

Presenter: Dr SHIKAMA, Taiichi (Department of Mechanical Engineering and Science, Graduate School of Engineering, Kyoto University)

Session Classification: Poster Session and Coffee break

Contribution ID: 99

Type: **Poster**

Diagnostics of heavy impurities at GOL-3 facility

Wednesday, 25 November 2009 16:29 (1 minute)

Primary author: Mrs SOROKINA, Nina (Budker Institute of Nuclear Physics)

Co-authors: Prof. BURDAKOV, Alexander (Novosibirsk State Technical University); Mr ROVENSKIKH, Andrey (Budker Institute of Nuclear Physics); Mr SHOSHIN, Andrey (Budker Institute of Nuclear Physics); Dr IVANOV, Ivan (Budker Institute of Nuclear Physics); Mr SHUDLO, Ivan (Budker Institute of Nuclear Physics); Dr POPOV, Sergei (Budker Institute of Nuclear Physics); Dr POLOSATKIN, Sergey (Budker Institute of Nuclear Physics); Dr POSTUPAEV, Vladimir (Novosibirsk State University)

Presenter: Dr POPOV, Sergei (Budker Institute of Nuclear Physics)

Session Classification: Poster Session and Coffee break

Contribution ID: **100**

Type: **Poster**

Optical emission spectroscopy study of the plasma spot

Wednesday, 25 November 2009 16:30 (1 minute)

Primary author: Dr ANTONOVA, Tetyana (Max-Planck Institut fuer Extraterrestrische Physik)

Co-authors: Dr ANNARATONE, B.M. (Lab. PIIM, UMR6633, CNRS-Univ. Provence, C.re St.Jerome, 321, 13397 Marseille, France); Prof. MORFILL, G.E. (Max-Planck-Institute für Extraterrestrische Physik, Postfach 1312 D-85741 Garching, Germany); Dr THOMAS, H.M. (Max-Planck-Institute für Extraterrestrische Physik, Postfach 1312 D-85741 Garching, Germany); Prof. ALLEN, J.E. (University College, Oxford, OX1 4BH, UK); Dr SATO, T. (Institute of Fluid Science, Tohoku University, Japan)

Presenter: Dr ANTONOVA, Tetyana (Max-Planck Institut fuer Extraterrestrische Physik)

Session Classification: Poster Session and Coffee break

Contribution ID: **101**

Type: **Poster**

3D optical diagnostics for the study of dust particle clusters

Wednesday, 25 November 2009 16:31 (1 minute)

Primary author: Dr ANTONOVA, Tetyana (Max-Planck-Institute für Extraterrestrische Physik, Postfach 1312 D-85741 Garching, GermanyPhysik)

Co-authors: Dr ANNARATONE, B.M. (Lab. PIIM, UMR6633, CNRS-Univ. Provence, C.re St.Jerome, 321, 13397 Marseille, France); Dr GOLDBECK, D.D. (present address: Siemens Technology Accelerator GmbH (CT STA, MchP), Otto-Hahn-Ring 6, D-81739, Germany); Prof. MORFILL, G.E. (Max-Planck-Institute für Extraterrestrische Physik, Postfach 1312 D-85741 Garching, Germany); Dr THOMAS, H.M. (Max-Planck-Institute für Extraterrestrische Physik, Postfach 1312 D-85741 Garching, Germany)

Presenter: Dr ANTONOVA, Tetyana (Max-Planck-Institute für Extraterrestrische Physik, Postfach 1312 D-85741 Garching, GermanyPhysik)

Session Classification: Poster Session and Coffee break

Contribution ID: **102**

Type: **Poster**

X-ray GEM Detectors for High Resolution Spectroscopy and Position Control in Burning Plasma Experiments

Wednesday, 25 November 2009 16:32 (1 minute)

Primary author: Dr BOMBARDA, Francesca (ENEA, Italy)

Co-authors: Dr MURTAS, Fabrizio (INFN-LNF); Mr PIZZICAROLI, Giuseppe (ENEA, Italy); Dr PUDDU, Silvia (Università di Cagliari)

Presenter: Dr BOMBARDA, Francesca (ENEA, Italy)

Session Classification: Poster Session and Coffee break

Contribution ID: 103

Type: **Poster**

Calibration of Thomson parabola –MCP assembly for multi-MeV ion spectroscopy

Wednesday, 25 November 2009 16:33 (1 minute)

Primary author: Mr PRASAD, Rajendra (Department of Physics and Mathematics, Queen's University Belfast, UK)

Co-authors: Dr CARROLL, David (University of Strathclyde, Glasgow); Prof. NEELY, David (Central Laser Facility, Rutherford Appleton Laboratory, UK); Dr DORIA, Domenico (Department of Physics and Mathematics, Queen's University Belfast, UK); Dr SCHREIBER, Jeorg (Imperial College London, UK); Dr ROMAGNANI, Lorenzo (Department of Physics and Mathematics, Queen's University Belfast, UK); Prof. BORGHESI, Marco (Department of Physics and Mathematics, Queen's University Belfast, UK); Prof. ZEPF, Matt (Department of Physics and Mathematics, Queen's University Belfast, UK); Mr TRESCCA, Olivier (University of Strathclyde, Glasgow); Mr GALLEGOS, Pablo (Central Laser Facility, Rutherford Appleton Laboratory, UK); Ms CHARLOTTE, Palmer (Imperial College London, UK); Dr MCKENNA, Paul (University of Strathclyde, Glasgow); Ms FOSTER, Peta (Central Laser Facility, Rutherford Appleton Laboratory, UK); Dr TER- AVETISYAN, Sargis (Department of Physics and Mathematics, Queen's University Belfast, UK); Dr NAZMUDIN, Zulfikar (Imperial College London, UK)

Presenter: Mr PRASAD, Rajendra (Department of Physics and Mathematics, Queen's University Belfast, UK)

Session Classification: Poster Session and Coffee break

Contribution ID: **104**Type: **Poster**

Design of multi-range tomographic system for transport studies in tokamak plasmas

Wednesday, 25 November 2009 16:34 (1 minute)

Primary author: Dr WEINZETTL, Vladimir (Institute of Plasma Physics AS CR, v.v.i., Prague, Czech Republic)

Co-authors: Dr JARES, Daniel (Institute of Plasma Physics AS CR, v.v.i., Prague, Czech Republic); Dr SESTAK, David (Institute of Plasma Physics AS CR, v.v.i., Prague, Czech Republic); Dr NAYDENKOVA, Diana (Institute of Plasma Physics AS CR, v.v.i., Prague, Czech Republic); Dr SARYCHEV, Dmitry (NFI RRC "Kurchatov Institute", Moscow, Russia); Dr MLYNAR, Jan (Institute of Plasma Physics AS CR, v.v.i., Prague, Czech Republic); Mr MALOT, Jerome (Arts et Metiers ParisTech, Paris, France); Dr VLCEK, Jiri (Institute of Plasma Physics AS CR, v.v.i., Prague, Czech Republic); Dr MELICH, Radek (Institute of Plasma Physics AS CR, v.v.i., Prague, Czech Republic); Dr IGOCHINE, Valentin (Max-Planck-Institut für Plasmaphysik, EURATOM Association, Garching, Germany)

Presenter: Dr WEINZETTL, Vladimir (Institute of Plasma Physics AS CR, v.v.i., Prague, Czech Republic)

Session Classification: Poster Session and Coffee break

Contribution ID: 105

Type: **Invited Talk**

High resolution neutron emission spectroscopy at JET

Primary author: Mr ANDERSSON SUNDÉN, Erik (Uppsala University, Department of Physics and Astronomy, 751 20 Uppsala, Sweden (EURATOM-VR))

Co-authors: JET-EFDA CONTRIBUTORS*, - (-); HELLESEN, Carl (Uppsala University, Department of Physics and Astronomy, 751 20 Uppsala, Sweden (EURATOM-VR)); RONCHI, Emanuele (Uppsala University, Department of Physics and Astronomy, 751 20 Uppsala, Sweden (EURATOM-VR)); ERICSSON, Göran (Uppsala University, Department of Physics and Astronomy, 751 20 Uppsala, Sweden (EURATOM-VR)); SJÖSTRAND, Henrik (Uppsala University, Department of Physics and Astronomy, 751 20 Uppsala, Sweden (EURATOM-VR)); CECCONELLO, Marco (Uppsala University, Department of Physics and Astronomy, 751 20 Uppsala, Sweden (EURATOM-VR)); GATU JOHNSON, Maria (Uppsala University, Department of Physics and Astronomy, 751 20 Uppsala, Sweden (EURATOM-VR)); WEISZFLOG, Matthias (Uppsala University, Department of Physics and Astronomy, 751 20 Uppsala, Sweden (EURATOM-VR)); CONROY, Sean (Uppsala University, Department of Physics and Astronomy, 751 20 Uppsala, Sweden (EURATOM-VR)); SANGAROON, Siriyaporn (Uppsala University, Department of Physics and Astronomy, 751 20 Uppsala, Sweden (EURATOM-VR))

Presenter: ERICSSON, Göran (Uppsala University, Department of Physics and Astronomy, 751 20 Uppsala, Sweden (EURATOM-VR))

Contribution ID: **106**

Type: **Poster**

Spectroscopic diagnostics for the negative ion RF source SPIDER

Wednesday, 25 November 2009 16:36 (1 minute)

Primary author: Dr PASQUALOTTO, Roberto (Consorzio RFX, Associazione EURATOM-ENEA sulla Fusione, Corso Stati Uniti 4, 35127 Padova, Italy)

Co-authors: Dr ALFIER, Alberto (Consorzio RFX, Associazione EURATOM-ENEA sulla Fusione, Corso Stati Uniti 4, 35127 Padova, Italy); Dr ZANIOL, Barbara (Consorzio RFX, Associazione EURATOM-ENEA sulla Fusione, Corso Stati Uniti 4, 35127 Padova, Italy); Dr GAZZA, Erica (Consorzio RFX, Associazione EURATOM-ENEA sulla Fusione, Corso Stati Uniti 4, 35127 Padova, Italy); Dr SERIANNI, Gianluigi (Consorzio RFX, Associazione EURATOM-ENEA sulla Fusione, Corso Stati Uniti 4, 35127 Padova, Italy); Dr AGOSTINI, Matteo (Consorzio RFX, Associazione EURATOM-ENEA sulla Fusione, Corso Stati Uniti 4, 35127 Padova, Italy)

Presenter: Dr PASQUALOTTO, Roberto (Consorzio RFX, Associazione EURATOM-ENEA sulla Fusione, Corso Stati Uniti 4, 35127 Padova, Italy)

Session Classification: Poster Session and Coffee break

Contribution ID: **107**

Type: **Poster**

Modelling of the signal processing electronics of the JET interferometer-polarimeter

Wednesday, 25 November 2009 16:37 (1 minute)

Primary author: Dr GELFUSA, Michela (Associazione EURATOM-ENEA - University of Rome "Tor Vergata", Roma Italy)

Co-authors: Dr BOBOC, Alexandru (EURATOM/UKAEA Fusion Association, Culham Science Centre, Abingdon, OX14 3DB, UK); Dr MURARI, Andrea (Consorzio RFX Associazione EURATOM-ENEA per la Fusione, 4-35127 Padova, Italy); Dr ORSITTO, Francesco (Associazione EURATOM - ENEA CR Frascati 00044 Frascati, Italy); Dr BROMBIN, Matteo (Consorzio RFX Associazione EURATOM-ENEA per la Fusione, 4-35127 Padova, Italy); Dr GAUDIO, Pasqualino (Associazione EURATOM-ENEA - University of Rome "Tor Vergata", Roma Italy)

Presenter: Dr GELFUSA, Michela (Associazione EURATOM-ENEA - University of Rome "Tor Vergata", Roma Italy)

Session Classification: Poster Session and Coffee break

Contribution ID: **108**

Type: **Poster**

Ion diagnostics for laser plasma experiments

Wednesday, 25 November 2009 16:38 (1 minute)

Primary author: Dr TER-AVETISYAN, Sargis (The Queen's University of Belfast)

Co-authors: Prof. BORGHESI, Marco (The Queen's University of Belfast); Prof. ZEPF, Matthew (The Queen's University of Belfast); Dr NICKLES, Peter V. (Max Born Institute); Dr SCHNURER, matthias (Max Born Institute)

Presenter: Dr TER-AVETISYAN, Sargis (The Queen's University of Belfast)

Session Classification: Poster Session and Coffee break

Contribution ID: **109**

Type: **Poster**

Modeling and optimisation of ion gauges for magnetic nuclear devices

Wednesday, 25 November 2009 16:39 (1 minute)

Primary author: Dr SCARABOSIO, Andrea (IPP Garching (Ge))

Co-authors: Dr HAAS, Guenter (IPP Garching (Ge)); Mr SAUTER, Pierre (IPP Garching (Ge))

Presenter: Dr SCARABOSIO, Andrea (IPP Garching (Ge))

Session Classification: Poster Session and Coffee break

Contribution ID: **110**

Type: **Poster**

Robust reflectometric measurements in the presence of density fluctuations

Wednesday, 25 November 2009 16:08 (1 minute)

Primary author: Mr DE MASI, Gianluca (Consorzio RFX, Associazione Euratom, ENEA, Corso Stati Uniti 4, I-35127 Padova, Italy)

Co-authors: Mr AGOSTINI, Matteo (Consorzio RFX, Associazione Euratom, ENEA, Corso Stati Uniti 4, I-35127 Padova, Italy); Mr MORESCO, Maurizio (Dipartimento di Ingegneria Elettrica, Università di Padova, Via Gradenigo 6/A, I-35131 Padova, Italy); Mr SCARIN, Paolo (Consorzio RFX, Associazione Euratom, ENEA, Corso Stati Uniti 4, I-35127 Padova, Italy); Mr CAVAZZANA, Roberto (Consorzio RFX, Associazione Euratom, ENEA, Corso Stati Uniti 4, I-35127 Padova, Italy)

Presenter: Mr DE MASI, Gianluca (Consorzio RFX, Associazione Euratom, ENEA, Corso Stati Uniti 4, I-35127 Padova, Italy)

Session Classification: Poster Session and Coffee break

Contribution ID: 111

Type: **Poster**

A new 3D viewer as an interface between the ASDEX Upgrade CAD models and data from plasma modelling and experiment

Wednesday, 25 November 2009 16:40 (1 minute)

Primary author: Dr LUNT, Tilmann (Max-Planck-Institut für Plasmaphysik)

Co-authors: Dr HERRMANN, Albrecht (Max-Planck-Institut für Plasmaphysik); Dr FUCHS, Christoph (Max-Planck-Institut für Plasmaphysik); Dr BROCHARD, Frédéric (Institut Jean Lamour, Faculté des sciences, 54506 Vandoeuvre-lès-Nancy, FRANCE); Dr MANK, Klaus (Max-Planck-Institut für Plasmaphysik); ENDSTRASSER, Nikolaus (Max-Planck-Institut für Plasmaphysik); Dr ROHDE, Volker (Max-Planck-Institut für Plasmaphysik); Dr FENG, Yühe (Max-Planck-Institut für Plasmaphysik)

Presenter: Dr LUNT, Tilmann (Max-Planck-Institut für Plasmaphysik)

Session Classification: Poster Session and Coffee break

Contribution ID: 112

Type: **not specified**

Spectroscopic X-ray Imaging

Friday, 27 November 2009 12:00 (30 minutes)

Primary author: Dr TLUSTOS, Lukas (CERN)

Presenter: Dr TLUSTOS, Lukas (CERN)

Session Classification: Imaging

Contribution ID: 113

Type: **Poster**

Collective Thomson Scattering on FTU: results and future prospects

Wednesday, 25 November 2009 16:41 (1 minute)

Primary author: Dr GROSSETTI, Giovanni Francesco (IFP - CNR Associazione Euratom-ENEA-CNR, Milano)

Co-authors: Dr BRUSCHI, Alessandro (IFP - CNR Associazione Euratom-ENEA-CNR, Milano); Dr ORSITTO, Francesco Paolo (Associazione Euratom-ENEA, Frascati); Dr GROSSO, Giovanni (IFP - CNR Associazione Euratom-ENEA-CNR, Milano); Dr GRANUCCI, Gustavo (IFP - CNR Associazione Euratom-ENEA-CNR, Milano); Dr LUBYAKO, Lev (IAP - Nizhny Novgorod); Dr TARTARI, Umberto (IFP - CNR Associazione Euratom-ENEA-CNR, Milano); Dr MUZZINI, Valerio (IFP - CNR Associazione Euratom-ENEA-CNR, Milano)

Presenter: Dr GROSSETTI, Giovanni Francesco (IFP - CNR Associazione Euratom-ENEA-CNR, Milano)

Session Classification: Poster Session and Coffee break

Contribution ID: 114

Type: **Poster**

Observations and analysis of FTU plasmas by video cameras

Wednesday, 25 November 2009 16:42 (1 minute)

Primary author: Dr DE ANGELIS, Riccardo De Angelis (ENEA)

Co-author: Dr DIMATTEO, Lucy (Enea Fellow)

Presenter: Dr DIMATTEO, Lucy (Enea Fellow)

Session Classification: Poster Session and Coffee break

Contribution ID: 115

Type: **Poster**

Localisation of MHD modes and consistency with q profiles in JET

Wednesday, 25 November 2009 16:43 (1 minute)

Primary author: Dr DE ANGELIS, Riccardo De Angelis (ENEA)

Co-authors: BOTRUGNO, Antonio (1Associazione Euratom/ENEA sulla Fusione, CP 65-00044 Frascati, Rome, Italy); FONSECA, Antonio (Associacao Euratom-IST,Centro de Fusao Nuclear, Av. Rovisco Pais,Lisbon, Portugal); ALPER, Barry (Euratom/UKAEA Fusion Association, Culham Science Centre, Abingdon, OX14 3DB, UK); GIROUD, Carine (Euratom/UKAEA Fusion Association, Culham Science Centre, Abingdon, OX14 3DB, UK); JET-EFDA, Contributors* (*See the Appendix of F. Romanelli et al., Proceedings of the 22nd IAEA Fusion Energy Conference, Geneva, Switzerland, 2008); HOWELL, David (Euratom/UKAEA Fusion Association, Culham Science Centre, Abingdon, OX14 3DB, UK); DE LA LUNA, Elena (Laboratorio Nacional de Fusión, Asociación EURATOM-CIEMAT, 28040, Madrid, Spain); RACHLEW, Elisabeth (Association EURATOM-VR,KTH Royal Institute of Technology,SE-10691Stockholm, Sweden); ORSITTO, Francesco Paolo (Associazione Euratom/ENEA sulla Fusione, CP 65-00044 Frascati, Rome, Italy); BARRERA, L (Laboratorio Nacional de Fusión, Asociación EURATOM-CIEMAT, 28040, Madrid, Spain); FIGINI, L (Istituto di Fisica del Plasma, Associazione EURATOM ENEA -CNR,Milano, Italy); BRIX, Mathias (3Euratom/UKAEA Fusion Association, Culham Science Centre, Abingdon, OX14 3DB, UK); BARUZZO, Matteo (Consorzio RFX, EURATOM-ENEA Association, Corso Stati Uniti 4, 35127 Padova, Italy); HAWKES, Nick (Euratom/UKAEA Fusion Association, Culham Science Centre, Abingdon, OX14 3DB, UK); TUDISCO, Onofrio (Associazione Euratom/ENEA sulla Fusione, CP 65-00044 Frascati, Rome, Italy); BURATTI, Paolo (Associazione Euratom/ENEA sulla Fusione, CP 65-00044 Frascati, Rome, Italy); PERICOLI, Vincenzo (Associazione Euratom/ENEA sulla Fusione, CP 65-00044 Frascati, Rome, Italy)

Presenter: Dr DE ANGELIS, Riccardo De Angelis (ENEA)

Session Classification: Poster Session and Coffee break

Contribution ID: **116**

Type: **not specified**

Large DBs on the GRID

Thursday, 26 November 2009 17:15 (30 minutes)

Primary author: Prof. FURANO, Fabrizio (CERN)

Presenter: Prof. FURANO, Fabrizio (CERN)

Session Classification: Data Mining 2

Contribution ID: 117

Type: **not specified**

Particle Energies in a Laser Fusion Environment

Wednesday, 25 November 2009 17:15 (30 minutes)

Primary author: Mrs NEELY, David (SLAC)

Presenter: Mrs NEELY, David (SLAC)

Session Classification: Energy spectrum of particles - Part II

Contribution ID: 118

Type: **not specified**

Fast Particle Measurements and Apparatus for Next Generation Fusion Devices

Wednesday, 25 November 2009 14:30 (30 minutes)

Primary author: Dr KIPTILY, Vasili (United Kingdom Atomic Energy Authority)

Presenter: Dr KIPTILY, Vasili (United Kingdom Atomic Energy Authority)

Session Classification: Energy spectrum of particles - Part I

Contribution ID: 119

Type: **Poster**

Novel applications and methods of Microwave and Far Infrared diagnostics for Science and Technology.

Wednesday, 25 November 2009 16:44 (1 minute)

Primary author: Mrs ZERBINI, Marco (ENEA)

Presenter: Mrs ZERBINI, Marco (ENEA)

Session Classification: Poster Session and Coffee break

Contribution ID: 120

Type: **Invited Talk**

X-Ray Spectroscopy for Diagnosis and Analysis

Thursday, 26 November 2009 08:30 (20 minutes)

Primary author: Prof. MICHETTE, Alan (King's College London)

Co-author: Dr PFAUNTSCH, Slawka (King's College London)

Presenter: Prof. MICHETTE, Alan (King's College London)

Session Classification: Spectroscopy

Contribution ID: 121

Type: **Invited Talk**

Neutron instrumentation for spectroscopy and imaging

Wednesday, 25 November 2009 17:45 (30 minutes)

Primary author: Prof. GORINI, Giuseppe (Universita' degli Studi di Milano-Bicocca)

Presenter: Prof. GORINI, Giuseppe (Universita' degli Studi di Milano-Bicocca)

Session Classification: Energy spectrum of particles - Part II

Contribution ID: 122

Type: **Poster**

The RFX-mod 3-D time resolved pellet imaging system

Wednesday, 25 November 2009 16:44 (1 minute)

Primary author: Mr MUNARETTO, Stefano (Consorzio RFX)

Co-authors: TERRANOVA, David (Consorzio RFX); Dr INNOCENTE, Paolo (Consorzio RFX)

Presenter: Mr MUNARETTO, Stefano (Consorzio RFX)

Session Classification: Poster Session and Coffee break

Contribution ID: 123

Type: **Invited Talk**

Lustre at CEA/DAM

Primary author: Mr THIELL, Stéphane (CEA)

Presenter: Mr THIELL, Stéphane (CEA)

Contribution ID: 124

Type: **Invited Talk**

Imaging in Astrophysics

Friday, 27 November 2009 09:15 (45 minutes)

Primary author: Prof. STRÜDER, Lothar (MPE-Semiconductor Laboratory)

Presenter: Prof. STRÜDER, Lothar (MPE-Semiconductor Laboratory)

Session Classification: Imaging

Contribution ID: 125

Type: **Poster**

First Mirrors Test in JET for ITER: An Overview of Optical Performance and Surface Morphology

Wednesday, 25 November 2009 16:44 (1 minute)

Primary author: Mrs RUBEL, Marek (Alfven Laboratory, Royal Institute of Technology)

Presenter: Mrs RUBEL, Marek (Alfven Laboratory, Royal Institute of Technology)

Session Classification: Poster Session and Coffee break

Contribution ID: 126

Type: **Invited Talk**

A GEM-BASED DETECTORS FOR BEAM MONITOR AND NEUTRON FLUXES DIAGNOSTICS

Wednesday, 25 November 2009 12:30 (30 minutes)

Primary author: Dr MURTAS, Fabrizio (INFN- LNF)

Co-authors: Dr ESPOSITO, Basilio (ENEA Frascati); Dr MAROCCO, Daniele (ENEA Frascati); Mr TAGNANI, Diego (INFN- LNF); Mr CORRADI, Giovanni (INFN- LNF); Mr PISTILLI, Marco (INFN- LNF); Dr VALENTE, Paolo (INFN-Roma); Dr VILLARI, Sara (ENEA Frascati)

Presenter: Dr MURTAS, Fabrizio (INFN- LNF)

Session Classification: Measurements of temperature and density

Contribution ID: 127

Type: **Invited Talk**

Neutron spectroscopy in fusion energy research

Primary author: Dr GÖRAN, Ericsson (Uppsala University)

Presenter: Dr GÖRAN, Ericsson (Uppsala University)

Contribution ID: 128

Type: **Poster**

Lithium Fluoride Thin Films Detectors for Soft X-Ray Imaging at High Spatial Resolution

Wednesday, 25 November 2009 16:44 (1 minute)

Primary author: Dr MONTEREALI, R.M. (LNF)

Presenter: Dr MONTEREALI, R.M. (LNF)

Session Classification: Poster Session and Coffee break

Contribution ID: 129

Type: **Poster**

A Diagnostic Study of Discharge in Hollow Cathode Plasma Jet System in Pulsed Regime

Wednesday, 25 November 2009 16:44 (1 minute)

Primary author: Dr KLUSON, Jan (Charles University in Prague)

Presenter: Dr KLUSON, Jan (Charles University in Prague)

Session Classification: Poster Session and Coffee break

Contribution ID: 130

Type: **Satellite meeting**

Polarimetry for Cosmological studies

Tuesday, 24 November 2009 15:30 (30 minutes)

Primary author: Prof. DE BERNARDIS, Paolo (RM1)

Co-author: Dr MASI, Silvia (RM1)

Presenter: Prof. DE BERNARDIS, Paolo (RM1)

Session Classification: Satellite meeting on Polarimetry measurements in various fields

Contribution ID: 132

Type: **Satellite meeting**

X ray Polarimetry:a new window on the high energy sky

Tuesday, 24 November 2009 15:00 (30 minutes)

Primary author: BELLAZZINI, Ronaldo (PI)

Presenter: BELLAZZINI, Ronaldo (PI)

Session Classification: Satellite meeting on Polarimetry measurements in various fields

Contribution ID: 133

Type: **Poster**

Recent design study of ITER X-ray survey spectrometer

Wednesday, 25 November 2009 16:35 (1 minute)

Primary author: Dr VARSHNEY, Sanjeev Kumar (ITER-India, IPR, Gandhinagar - INDIA)

Co-authors: Dr O MULLANE, Martin G. (JET, UKAEA, Culham Science Center, Abingdon, UK); Dr BARNSELY, Robin (ITER Organisation, Cadarache, France)

Presenter: Dr VARSHNEY, Sanjeev Kumar (ITER-India, IPR, Gandhinagar - INDIA)

Session Classification: Poster Session and Coffee break

Contribution ID: 135

Type: **Invited Talk**

thomosn scattering system

Primary author: Dr ORSITTO, francesco paolo (enea Frascati)

Presenter: Dr ORSITTO, francesco paolo (enea Frascati)

Contribution ID: 139

Type: **Invited Talk**

EUV multilayer coated mirrors for atto-physics, photolithography and space experiments

Thursday, 26 November 2009 12:25 (20 minutes)

Primary author: Dr PELIZZO, Maria Guglielmina (CNR-INFN LUXOR and UNIPD-DEI)

Co-authors: Dr WINDT, David (RXO LLC USA); Dr MONACO, Gianni (CNR-INFN LUXOR and UNIPD-DEI); Dr SUMAN, Michele (CNR-INFN LUXOR and UNIPD-DEI); Dr ZUPPELLA, Paola (CNR-INFN LUXOR and UNIPD-DEI); Dr NICOLOSI, Piergiorgio (UNIPD-DEI and CNR-INFN LUXOR)

Presenter: Dr PELIZZO, Maria Guglielmina (CNR-INFN LUXOR and UNIPD-DEI)

Session Classification: Spectroscopy

Contribution ID: 140

Type: **Satellite meeting**

Precision polarimetric techniques to measure gas and vacuum magnetic birefringence

Tuesday, 24 November 2009 16:30 (30 minutes)

Primary author: Prof. CANTATORE, Giovanni (TS)

Presenter: Prof. CANTATORE, Giovanni (TS)

Session Classification: Satellite meeting on Polarimetry measurements in various fields

Contribution ID: 141

Type: **Invited Talk**

Mining knowledge in astrophysical massive datasets

Thursday, 26 November 2009 15:30 (30 minutes)

Primary author: Dr BRESCIA, Massimo (INAF - Osservatorio Astronomico di Capodimonte)

Co-authors: Prof. PASIAN, Fabio (INAF - Osservatorio Astronomico di Trieste); Prof. LONGO, Giuseppe (Università degli Studi FEDERICO II Napoli)

Presenter: Prof. LONGO, Giuseppe (Università degli Studi FEDERICO II Napoli)

Session Classification: Data Mining 1

Contribution ID: 142

Type: **Invited Talk**

Fourier-Transform Infrared Spectroscopic Ellipsometry for Material Identification

Tuesday, 24 November 2009 17:30 (30 minutes)

Primary author: Dr ORTOLANI, Michele (CNR-IFN)

Co-author: Dr SCHADE, Ulrich (HZB-BESSY)

Presenter: Dr ORTOLANI, Michele (CNR-IFN)

Session Classification: Satellite meeting on Polarimetry measurements in various fields

Contribution ID: 144

Type: **Invited Talk**

Active Beam Spectroscopy for ITER

Thursday, 26 November 2009 12:50 (20 minutes)

Primary author: Dr VON HELLERMANN, Manfred (FOM Rijnhuizen)

Presenter: Dr VON HELLERMANN, Manfred (FOM Rijnhuizen)

Session Classification: Spectroscopy

Contribution ID: 145

Type: **Invited Talk**

Models for JET Polarimeter Data, Faraday Effect and constraints on Equilibrium reconstruction

Tuesday, 24 November 2009 17:00 (30 minutes)

Presenter: Dr ORSITTO, Francesco Paolo (Associazione Euratom-ENEA, Frascati)

Session Classification: Satellite meeting on Polarimetry measurements in various fields

Contribution ID: 146

Type: **Invited Talk**

Multi-GeV Electron spectrometer

Wednesday, 25 November 2009 13:00 (30 minutes)

Primary author: Mrs FACCINI, Riccardo (INFN-Roma1)

Presenter: Mrs FACCINI, Riccardo (INFN-Roma1)

Session Classification: Measurements of temperature and density

Contribution ID: 147

Type: **not specified**

Models for JET Polarimeter Data, Faraday Effect and constraints on Equilibrium reconstruction

Primary author: Dr ORSITTO, Francesco Paolo (Associazione Euratom-ENEA, Frascati)

Presenter: Dr ORSITTO, Francesco Paolo (Associazione Euratom-ENEA, Frascati)

Contribution ID: 148

Type: **not specified**

Precision Polarimetric techniques to measure gas and vacuum magnetic birefringence

Primary author: CANTATORE, Giovanni (TS)

Presenter: CANTATORE, Giovanni (TS)

Contribution ID: 149

Type: **not specified**

Optical Polarimeter for Spattering Measures

Presenter: Dr ORTOLANI, Michele (CNR-IFN)

Contribution ID: **150**

Type: **not specified**

Introductory talk

Presenter: GIULETTI, Danilo (PI)

Contribution ID: 151

Type: **not specified**

Mining knowledge of astrophysical massive datasets

Presenter: LONGO

Contribution ID: **152**

Type: **not specified**

Lustre at CEA/DAM

Thursday, 26 November 2009 16:45 (30 minutes)

Presenter: Mr THIELL, Stéphane (CEA)

Session Classification: Data Mining 2

Contribution ID: 153

Type: **not specified**

Optoacoustic Medical Imaging Technology

Presenter: FERRARIO, Angelo (Quanta System)

Contribution ID: **154**

Type: **not specified**

Discussion

Tuesday, 24 November 2009 18:00 (30 minutes)

Presenter: Dr MAZON, Didier (Association EURATOM-CEA, CEA Cadarache, 13108 Saint-Paul-lez--Durance, France)

Session Classification: Satellite meeting on Polarimetry measurements in various fields

Contribution ID: 155

Type: **Invited Talk**

Ultra-short fs-scale electron bunch production and characterization

Primary author: Dr SERAFINI, Luca (INFN - Sezione di Milano)

Presenter: Dr SERAFINI, Luca (INFN - Sezione di Milano)

Contribution ID: 156

Type: **Invited Talk**

X-ray imaging and Spectroscopy of laboratory plasmas

Wednesday, 25 November 2009 10:00 (30 minutes)

Primary author: Dr GIZZI, Leonida (Consiglio Nazionale delle Ricerche, ILIL-IPCF, Pisa, Italy & INFN, Sezione di Pisa, Italy)

Presenter: Dr GIZZI, Leonida (Consiglio Nazionale delle Ricerche, ILIL-IPCF, Pisa, Italy & INFN, Sezione di Pisa, Italy)

Session Classification: Measurements of temperature and density

Contribution ID: **157**

Type: **not specified**

Discussion

Wednesday, 25 November 2009 18:15 (15 minutes)

Session Classification: Energy spectrum of particles - Part II

Contribution ID: 158

Type: **Invited Talk**

Measurement techniques for the fast electron distribution in laser-plasma experiments in the context of the “fast ignition” approach to Inertial Confinement Fusion

Wednesday, 25 November 2009 11:30 (30 minutes)

Primary author: Mrs BATANI, Dimitri (Universita Milano Bicocca & INFN - Milano Bicocca)

Presenter: Mrs BATANI, Dimitri (Universita Milano Bicocca & INFN - Milano Bicocca)

Session Classification: Measurements of temperature and density

Contribution ID: 159

Type: **Invited Talk**

Neutron emission spectroscopy in fusion energy research

Wednesday, 25 November 2009 16:45 (20 minutes)

Primary author: Dr ERICSSON, Göran (, Dept of Physics and Astronomy, Uppsala University)

Presenter: Dr ERICSSON, Göran (, Dept of Physics and Astronomy, Uppsala University)

Session Classification: Energy spectrum of particles - Part II

Contribution ID: **160**

Type: **Invited Talk**

Diagnostic in Hadron Therapy

Friday, 27 November 2009 08:30 (45 minutes)

Primary author: Dr ENGHARDT, Wolfgang (OncoRay –Center for Radiation Research in Oncology)

Presenter: Dr ENGHARDT, Wolfgang (OncoRay –Center for Radiation Research in Oncology)

Session Classification: Imaging

Contribution ID: **161**

Type: **Invited Talk**

LASER OPTOACOUSTIC IMAGING SYSTEM

Friday, 27 November 2009 11:30 (30 minutes)

Primary author: Dr FERRARIO, A (QUANTA SYSTEM. SOLBIATE OLONA .ITALY)

Presenter: Dr FERRARIO, A (QUANTA SYSTEM. SOLBIATE OLONA .ITALY)

Session Classification: Imaging

Contribution ID: 162

Type: **not specified**

Lithium Fluoride Thin Films Detectors for Soft X-Ray Imaging at High Spatial Resolution

Friday, 27 November 2009 12:30 (15 minutes)

Presenter: Dr MONTEREALI, Rosa Maria (ENEA C.R. Frascati)

Session Classification: Imaging

Contribution ID: 163

Type: **Invited Talk**

Single Crystal Artificial Diamond Detectors for VUV and soft X-Rays Measurements on JET Thermonuclear Fusion Plasma.

Wednesday, 25 November 2009 17:05 (10 minutes)

Presenter: Dr ANGELONE, Maurizio (ENEA)

Session Classification: Energy spectrum of particles - Part II

Contribution ID: **164**

Type: **Invited Talk**

Data Preservation and Long Term Accessibility

Thursday, 26 November 2009 17:45 (20 minutes)

Primary author: Dr NEAL, Homer (SLAC)

Presenter: Dr NEAL, Homer (SLAC)

Session Classification: Data Mining 2

Contribution ID: **165**

Type: **not specified**

New Techniques of Acceleration

Wednesday, 25 November 2009 11:00 (30 minutes)

Presenter: GIULIETTI, Danilo (PI)

Session Classification: Measurements of temperature and density

Contribution ID: 166

Type: **Poster**

Pin-Hole Array production and detailed data analysis for advanced single-shot X-ray imaging of laboratory plasmas.

Wednesday, 25 November 2009 16:19 (1 minute)

Primary author: Dr LEVATO, Tazio (LNF)

Presenter: Dr LEVATO, Tazio (LNF)

Session Classification: Poster Session and Coffee break

Contribution ID: 167

Type: **Poster**

Design of high resolution Thomson scattering diagnostic system on COMPASS tokamak

Wednesday, 25 November 2009 16:00 (1 minute)

Primary author: BÍLKOVÁ, Petra (1Institute of Plasma Physics AS CR, v.v.i., Association EURATOM IPP.CR, Czech Republic)

Presenter: BÍLKOVÁ, Petra (1Institute of Plasma Physics AS CR, v.v.i., Association EURATOM IPP.CR, Czech Republic)

Session Classification: Poster Session and Coffee break