Conference Program

DECEMBER 5, 2006 Tuesday

Plenary Session

Chair: A. Mase

I1-1	*H. Fukuyama*	Diffusion MRI
I1-2	*H. Park*	Study of the Complex Physics of the Magnetic Reconnection Process in High Temperature Plasmas using a High Resolution Microwave Imaging System.
O1-3	*K. Itoh*	On Imaging of Plasma Turbulence

Oral Session Image Reconstruction

Char: N. Iwama

I2-1	*H. Kudo*	A Comprehensible Review on Analytical Image Reconstruction Methods for Tomography
I2-2	*J. Hsieh*	Present and Future of Computed Tomography Technology
I2-3	*J. Howard*	Optical coherence imaging for high resolution plasma spectroscopy
I2-4	*T. Takeda*	Ionospheric Tomography by Neural Network Collocation Method

Oral Session Plasma(Imaging Technology)

Chair:H. Park

I3-1	*N. Luhmann, Jr*	Advanced Microwave/Millimeter-Wave Imaging Technology
I3-2	*M. Hangyo*	Spectroscopy and Imaging by Laser Excited Terahertz Waves

I3-3	*G. Etoh*	Evolution of Ultra-High-Speed CCD Imagers
O3-4	*H. Hojo*	Simulation Studies on Advanced Microwave Diagnostics and Related Technology

DECEMBER 6, 2006 Wednesday

Oral Session Plasma(Particle & Fusion Products)

Chair: G. McKee

I4-1	*M. Tanpo*	High density plasma probing with pulse proton beams generated in ultra-intense laser plasma interactions
I4-2	*R. Bamsley*	Advanced imaging applications on ITER
I4-3	*H. Bindslev*	The diagnosis of fast ions in fusion plasmas by means of collective Thomson scattering (CTS)

Oral Session Electron Microscopy

Chair: K. Nagayama

	K. Nagayama	Introduction
I5-1	*R. Schroeder*	Optimizing Phase Contrast in TEM by the use of an electrostatic Boersch Phase Plate
I5-2	*N.Mizuno*	Cryo-EM study of dynein-microtubule interaction
I5-3	*K. Namba*	Molecular Mechanisms of Swimming and Tumbling in Bacterial Motility
I5-4	*Y. Kaneko*	Visualization of in vivo macromolecules in ice embedded whole cyanobacterial cells by Hilbert differential contrast transmission electron microscopy

Poster Session I (Plasma)

P5-01~P5-20, P7-01~P7-19, P8-01~P8-32, P13-1~P13-7

Oral Session Astronomy(Hinode)

Chair: H. Karoji

I6-1	*H. Hara*	Hinode; A New Solar Observatory in Space - Current Status -
I6-2	*K. Ichimoto*	Three-Dimensional Magnetic Structures of Solar Photosphere and Chromosphere
I6-3	*R. Kano*	Multiplicity of Solar X-Ray Corona in Time and Space
I6-4	*T. Watanabe*	Emission Line Imaging Spectroscopy for Diagnosing of Solar Outer Atmospheres

DECEMBER 7, 2006 Thursday

Oral Session Plasma(Laser & Particle Beam)

Chair: H. Bindslev

I7-1	*Y. Hamada*	Heavy Ion Beam Probe, Present status and future development
I7-2	*G. R. McKee*	Plasma Turbulence Imaging via Beam Emission Spectroscopy on the DIII-D Tokamak
O7-3	*Y. Hatae*	Development of Polarization Interferometer Based on Fourier Transform Spectroscopy for Thomson Scattering Diagnostics
O7-4	*K. Kawahata*	Advanced Laser Diagnostics for Electron Density Measurements.

Oral Session Medical Imaging

Chair: R. Kakigi

I8-1	*Y. Sasaki*	MRI technologies in recent human brain mapping
I8-2	*N. Sadato*	Cross-modal integration and plasticity revealed by functional magnetic resonance imaging
O8-3	*M. Sugiura*	Cortical Networks for Visual Self-Recognition
O8-4	*I. Iidaka*	Neuroimaging Study of the Human Amygdala-Toward an Understanding of Emotional and Stress Responses-

Poster Session II (Imaging)

P1-01~P4-03, P6-01~P6-39, P9-01~P12-6

DECEMBER 8, 2006 Friday

Oral Session Plasma(Plasma Imaging)

Chair: J. Howard

I9-1	*S. Ohdachi*	Tangential SX imaging for visualization of fluctuations in toroidal plasmas
O9-2	*Y. Aglitskiy*	Monochromatic x-ray imaging and spectroscopy with spatial resolution for ICF experiments
O9-3	*M. Tanabe*	X-ray spectroscopic diagnostics for laser-imploded core plasmas with high spatial and temporal resolutions
O9-4	*B. J. Peterson*	Research and Development of Imaging Bolometers

Oral Session Biological Imaging

Chair: R. Kodama

I10-1	*E.Stelzer*	Farewell cover slip: Light-sheet based microscopy (SPIM) fosters a modern approach to three-dimensional cell biology
I10-2	*Y. Ohmiya*	Imaging of cell functions using by bioluminescence probes
I10-3	*T. Nemoto*	Functional Imaging of Neural Cell and Secretory Gland Cell by Near-infrared Ultra-short Pulse Laser Light
I10-4	*S. Nonaka*	Symmetry break in developmentmental biology: Left-right determination.

Oral Session Mix

Chair: O. Okamoto

O11-1	*S. Kimura*	Infrared magneto-optical imaging on an organic conductor by means of synchrotron radiation
O11-2	*T. Hasegawa*	Atacama Large Millimeter/Submillimeter Array ALMA
O11-3	*K. Morita*	Imaging Technique of Radio Interferometers
O11-4	*K. Shibasaki*	Multi-wavelength Imaging of Solar Plasma
O11-5	*L. Pranevicius*	Carbon redeposition under high-flux, low-energy ion irradiation effects on properties of tungsten films
O11-6	*S. Sudo*	Multi-functional Diagnostic Method with Tracer-encapsulated Pellet Injection

Poster Session 1 – Plasma (Categories 5, 7, 8, 13)

P5-01 Electron Temperature Measurement And Study Of Istabilities And Sawtooth Behavior In IR-T1 Tokamak By E.C.E Diagnostic
Reza Shariatzadeh, Plasma Physics Reaserch Center,Islamic Azad University

P5-02 Effects of relativistic and absorption on ECE spectra in high temperature tokamak plasma
Masayasu Sato , Japan Atomic Energy Agency,Naka Fusion Institute

P5-03 Suprathermal electron distribution diagnostic for SST-1 tokamak
Surya Kumar Pathak, Institute for Plasma Research

P5-04 Protection Filters in ECEI Systems for Plasma Diagnostics
Luhmann,jr. C. Neville, University of California, Davis, US

P5-05 Imaging meso-scale structures in TEXTOR
Roger Jaspers, FOM institute of Plasma Physics Rijnhuizen

P5-06 Development of ECE Imaging System on LHD
Yuichiro Kogi, Art,Science and Technology Center for Cooperative Reserch, Kyushu University

P5-07 Improvements of CO2 laser heterodyne imaging interferometer for density profile measurements on LHD
Kenji Tanaka, National Institute for Fusion Science

P5-08 Two dimensional phase contrast imaging of micro-turbulence in LHD
Clive Alvin Michael, National Institute for Fusion Science

P5-09 Instrumental capabilities and limitations of two-dimensional phase contrast imaging on LHD
Leonid Nikolaevich Vyacheslavov, Budker Institute for Nuclear Physics

P5-10 Electron Density Measurement by Using a Multi-Channel Interferometer System in the Tandem Mirror GAMMA 10
Masayuki Yoshikawa, University of Tsukuba

P5-11 Reflectometry for Density Fluctuation and Profile Measurements in TST-2
Takuma Yamada, Research Institute for Applied Mechanics, Kyushu University

P5-12 Microwave Imaging Reflectometry in LHD
Soichiro Yamaguchi, National Institute for Fusion Science

P5-13 Multi-channel Microwave Reflectometer with Fermi Antenna Receivers
Kunihiko Hattori, Department of Electrical Engineering, Graduate School of Engineering, Tohoku University

P5-14 Design of the 48, 57 μ m Poloidal Polarimeter for ITER
Rostyslav Pavlichenko, National Institute for Fusion Science

P5-15 Weakly Relativistic K-band Oversized Backward Wave Oscillator with Bragg Reflector at Input End of Slow Wave Structure
Kazuo Ogura, Graduate School of Science and Technology, Niigata University

P5-16 Advanced Fabrication Method of Planar Components for Plasma Diagnostics
Naoki Ito, Art, Science and Technology Center for Cooperative Research, Kyushu University, Japan

P5-17 Development of a Tera Hertz Gyrotron as a Radiation Source
Osamu Watanabe, Plasma Research Center, University of Tsukuba

P5-18 Utilization of Terahertz Imaging Technology to High-Temperature Plasma Diagnostics
Tokihiko Tokuzawa, NIFS

P5-19 Laser Absorption Spectroscopy for Diagnostics of a Neutral Helium Beam
Atsushi Okamoto, Tohoku University

P5-20 Design of bolometer diagnostics for the KSTAR
Dongcheol Seo, National Fusion Research Center

P7-01 Helium measurements using the pellet charge exchange in Large Helical Device
Tetsuo Ozaki, National Institute for Fusion Science

P7-02 New 20-channel Diagnostic for Angle-Resolved Fast Particles Measurements in LHD.
Evgeny A Veshchev, SOKENDAI, Ph.D. student

P7-03 A Method for Reconstruction of the Neutral Particle Source Function in Helical Magnetically Confined Plasma
Pavel R. Goncharov, National Institute for Fusion Science

P7-04 Analysis of energy spectra of fast ion in the Large Helical Device
Hidetoshi Nishimura, Department of Quantum Science and Energy Engineering, Tohoku University

P7-05 Fast ion diagnostics for CHS experiment
Mitsutaka Isobe, National Institute for Fusion Science

P7-06 Effects of Radially Sheared Electric Field Analyzed with End-Loss Ion-Energy Spectrometers
Mafumi Hirata, Plasma Research Center, University of Tsukuba

P7-07 Use of γ-ray-generating ^{6}Li+D reaction for verification of Boltzmann-Fokker-Planck simulation and knock-on tail diagnostics in neutral-beam-injected plasmas
Hideaki Matsuura, Kyushu University

P7-08 Observation of Molecular and Atomic Ions in recombination Plasma
Akira Tonegawa, Department of Physics, School of Science, Tokai University

P7-09 Observation of Divertor Plasma Shift during a Discharge in Heliotron J
Tohru Mizuuchi, Institute of Advanced Energy, Kyoto University

P7-11 Measurement of gas composition ratio of H-He mixture plasmasin Divertor Simulator MAP-II
Yosuke Kuwahara, Department of Quantum Eng. and Systems Sci., School of Engeenering, The University of Tokyo

P7-12 Development of Heat Flow Measurement using Thermal Probe Method in Divertor Simulator MAP-II
Kiminori Kurihara, School of Engineering, The university of Tokyo

P7-13 Development of a neutron measurement system for nd/nt fuel ratio measurement in burning plasma
Koichi Okada, Tohoku University

P7-14 Neutron spectral broadening due to the polyethylene collimator of the fast neutron spectrometer
Tetsuro Matsumoto, National Metrology Institute of Japan, National Institute of Advanced Industrial Science and Technolgy

P7-15 Characteristic observation of the ion beams in the plasma focus device
Hamid reza Yousefi, University of Toyama

P7-16 Development of a Simple and Tough Alpha-particle Detector Used at High Temperature
Toshiyuki Iida, Osaka University

P7-17 Effects of ion orbits due to potential formation on transverse ion transport in thethermal barrier region of GAMMA10
Hiroshi Saimaru, Plasma Research Center, University of Tsukuba

P7-18 The Neutral Transport Analysis Based on Visible Light Measurement of Recycling and 3-dimensional Simulation in GAMMA 10
Yuta Higashizono, Plasma Research Center, University of Tsukuba

P7-19 Calculation of Fusion Condition of Hydrogen-Boron by I.C.F Method
Babak Malekyneia, Plasma Physics Research Center, Islamic Azad University

P8-01 Sheath Structure around Negatively Biased Probe in Electronegative Plasma
Hiroto Matsuura, Osaka Prefecture University

P8-02 Electron Energy Distribution Functions in a Low Pressure Inductively Coupled CH4/H2 Plasma
Katsuyuki Okada, National Institute for Materials Science

P8-04 Advanced Probe Measurement System in TU-Heliac
Yutaka Tanaka, Department of Quantum Science and Energy Engineering, Tohoku University

P8-05 Mach Probe Measurements of Detached Plasmas in a Linear Plasma Device
Naomichi Ezumi, Nagano National College of Technology

P8-06 Measurement of Electron Density and Temperature and Their Fluctuations Using a Triple Langmuir Probe Grounded through Finite Resistance
Masaki Takeuchi, Department of Energy Engineering and Science, Nagoya University

P8-07 Calibration of Fast Ion Flux Measured by a Directional Probe
Kenichi Nagaoka, National Institute for Fusion Science

P8-08 Probing of toroidal electron plasmas confined in CHS magnetic surfaces
Yoshiaki Yamamoto, Kyoto Institute of Technology, Department of Electronics

P8-09 Technique of MHD mode analysis using magnetic measurements in heliotron plasmas
Satoru Sakakibara, National Institute for Fusion Science

P8-10 Magnetic Diagnostics of Magnetic Island in LHD
Yoshiro Narushima, National Institute for Fusion Science (NIFS)

P8-11 Current Profile Dependence of CCS Method to Reproduce Spherical Tokamak Plasma Shape
Wang Feng, AEES, Kyushu University

P8-12 Two-dimensional edge density measurements in the Large Helical Device
Hayato Tsuchiya, Graduate University for Advanced Studies

P8-13 Measurement of 3-D Mode Structure of the Edge Harmonic Oscillations in CHSusing Beam Emission Spectroscopy
Tetsutarou Oishi, National Institute for Fusion Science

P8-14 Potential measurement with 6 MeV Heavy Ion Beam Probe on LHD
Akihiro Shimizu, NIFS

P8-15 Estimate of ionization cross sections for a heavy ion beam probe
Masaki Nishiura, National Instiute for Fusion Science

P8-17 Structure of sample volumes of the heavy ion beam probe in LHD
Takeshi Ido, National Institute for Fusion Science

P8-18 Observation of the effects of radially sheared electric fields by the use of a gold neutral beam probe
Yoshiaki Miyata, Plasma Research Center, University of Tsukuba

P8-19 Beam Probe Imaging Method for Edge Plasma Modeling in CHS
Harukazu Iguchi, National Institute for Fusion Science

P8-20 Two dimensional Li beam imaging to study the magnetic field configuration effects on plasma confinement in spherical tokamak CPD
Rajendraprasad Bhattacharyay, Interdisciplinary Graduate School of Engineering Science, Kyushu University

P8-21 Numerical Simulation of a High-Brightness Lithium Ion gun for a Zeeman Polarimetry on JT-60U
Atsushi Kojima, Japan Atomic Energy Agency

P8-22 Proof of principle experiment of a fast He0 beam production for alpha particle diagnostics
Nozomi Tanaka, Tohoku University, Department of Quantum Science and Energy Engineering

P8-23 Raman and Rayleigh Calibrations of the LHD YAG Thomson Scattering
Yamada Ichihiro, National Institute for Fusion Science

P8-24 Improving the Thomson Scattering Diagnostic installed on the Large Helical Device
Kazumichi Narihara, National Institute for Fusion Science

P8-25 Development of 2-D Thomson Scattering Measurement Using Multiple Reflection and the Time-of-Flight of Laser Light
Takashi Sumikawa, The University of Tokyo

P8-26 Laser scattering measurement of the electron density fluctuations in CHS
Yoshifumi Azuma, Tokyo Institute of Technology

P8-27 Laser Thomson Scattering Measurements in Helium Recombining Plasmas in Divertor/Edge Simulator MAP-II and its Comparison with Spectroscopy
Filippo Scotti, The University of Tokyo

P8-28 Collective Thomson scattering for alpha-particle diagnostic in burning plasmas
Takashi Kondoh, Japan Atomic Energy Agency

P8-29 Sensitivity study for the optimization of the viewing chord arrangement of the ITER poloidal polarimeter
Taiki Yamaguchi, Japan Atomic Energy Agency

P8-30 Bench testing of polarimeter with Si photo elastic modulator for short wavelength FIR laser
Tsuyoshi Akiyama, National Institute for Fusion Science

P8-31 Development of Short Wavelength Far-Infrared Lasers and Optical Elements for Plasma Diagnostics
Kazuya Nakayama, Chubu University

P8-32 Effect of pressure and magnetic field on parameters of plasma in a DC cylindrical magnetron sputtering device
Kiomars Yasserian, Plasma Physics Research center, Science and Research Branch,Islamic Azad University

P13-01 Electron Energy Distribution Functions in a Low Pressure Inductively Coupled CH4/H2 Plasma
Katsuyuki Okada, National Institute for Materials Science

P13-02 ECR heating and ECE diagnostic in W7-X stellarator: ray tracing simulations of non-thermal effects
Nikolai B. Marushchenko, Max-Planck-Institut fuer Plasma Physik, EURATOM Association

P13-03 Carbon redeposition under high-flux, low-energy ion irradiation effects on properties of tungsten films
Liudvikas Pranevicius, Vytautas Magnus University, Lithuania

P13-04 An exact linear dispersion relation for CRM instability
Kazuo Minami, Faculty of Engineering, Tokyo Denki University

P13-05 Mapping of flux quantities in the high beta heliotron plasmas
Kiyomasa Y. Watanabe, National Inststitute for Fusion Science

P13-06 Development of the Web Interface for FIT Program
Masahiko Emoto, NIFS

P13-07a Physics of Radiative Collapse in the Large Helical Device
Yuri Igitkhanov, Max-Planck-Institut fuer Plasmaphysik, IPP-EURATOM Ass.

P13-07b Impurity Transport Studies on LHD
Yuri igitkhanov, Max-Planck-Institut fuer Plasmaphysik, IPP-EURATOM Ass.

P13-07c Stellarator Impurity STRAHL Code Development in NIFS
Yuri igitkhanov, Max-Planck-Institut fuer Plasmaphysik, IPP-EURATOM Ass.

Poster Session 2 – Imaging (Categories 1-4, 6, 9-12)

P1-01 Somato-motor inhibitory processing in humans: a study with MEG and ERP
Hiroki Nakata, National Institute for Physiological Sciences

P1-02 Somatosensory mismatch responses using oddball paradigm; an MEG study
Kosuke Akatsuka, National Institute for Physiological Sciences

P1-03 Imaging mass spectrometry revealed abnormal distribution of phospholipids in colon cancer liver metastasis
Takahiro Hayasaka, Okazaki Institute for Integrative Bioscience

P2-01 Constrained Electron Beam Tomography for Identifying 3-Dimensional Movements and Twisting Mechanizm of Sperm Flagella of the Stag Beetle *(PROSOPOCOILUS INCLINATES)*
Masaru Irie, Waseda University

P2-02 Developments of split reporter proteins for biomolecular imaging
Masaki Takeuchi, Department of Molecular Structure, Institute for Molecular Science

P2-03 Direct Observation of Intracellular Materials Using a Phase Contrast Transmission Electron Microscope (TEM).
Koji Nitta, National Institutes of Natural Sciences, Okazaki Institute for Integrative Biosciences

P2-04 Structural Analysis of Non-Selective Cation Channel TRPV4 using a Phase-Contrast Transmission Electron Microscope
Hideki Shigematsu, National Institutes of Natural Sciences

P4-01 Imaging of tungsten impurity ejected from damaged material due to transient heat load
Shin Kajita, Nagoya University

P4-02 Near-field optical imaging of electric field and wavefunctions in metal nanoparticles
Hiromi Okamoto, Institute for Molecular Science

P4-03 Supported phospholipid bilayer membranes on SiO_2 and TiO_2 surfaces
Ryugo Tero, Institute for Molecular Science

P6-01 Charge transfer in collisions of proton with CH3 molecules
Hida Ken-nosuke, Foundation for Promotion of Material Science and Technology of Japan

P6-02 Fulcher-α spectra in the mixed hydrogen isotope plasma
Taiichi Shikama, School of Engineering, The University of Tokyo

P6-03 Analyses of visible images of the plasma periphery observed with tangentially viewing CCD cameras in the Large Helical Device
Mamoru Shoji, National Institute for Fusion Science

P6-04 A new Doppler shift spectroscopy for the measurement of neutral beam profile
Yuejiang Shi, Institute of Plasma Physics,Chinese Academy of Sciences

P6-05 Observation of Hydrogen and Cesium Spectra in a Negative Ion Source for a Neutral Beam Injector using a Multi-channel Spectrometer
Katsunori Ikeda, National Institute for Fusion Science

P6-06 A Multi-reflection Type Visible-laser Interferometer for High Density Plasma Measurements
Kunihiko Hattori, Department of Electrical Engineering, Graduate School of Engineering, Tohoku University

P6-07 Development of real-time measurement system of charge exchange recombination spectroscopy and its application to feedback control of ion temperature gradient in JT-60U
Shinji Kobayashi, Institute of Advanced Energy, Kyoto University

P6-08 Temperature Diagnostics for Field-Reversed Configuration Plasmas on the Pulsed High Density (PHD) Experiment
Hiroshi Gota, Plasma Dynamics Laboratory, University of Washington

P6-09 A simultaneous spectroscopic measurement for the global and edge fine structures of the ion temperature and plasma rotation profiles in the Compact Helical System
Shin Nishimura, National Institute for Fusion Science

P6-10 Simultaneous Measurement of Proton Ratio and Beam Divergence of Positive-ion-based Neutral Beam in the Large Helical Device
Kenichi Nagaoka, National Institute for Fusion Science

P6-11 Infrared Imaging Video Bolometer with a Double Layer Absorbing Foil
Igor Vitalevich Miroshnikov, Saint-Petersburg State Polytechnical University, Plasma Physics Department

P6-12 Two-dimensional measurement of inward neutral flux in LHD
Motoshi Goto, National Institute for Fusion Science

P6-13 Design of Impurity Influx Monitor (Divertor) for ITER
Hiroaki Ogawa, Japan Atomic Energy Agency

P6-14 2-d image diagnostic technique for edge turbulence using fast cameras
Nobuhiro Nishino, Hiroshima University

P6-15 Two-dimensional measurement of plasma dynamics with an ICCD fast camera based on HeI line intensity ratio method
Yamamoto Norimasa, EcoTopia Science Institute, Nagoya University

P6-16 High-speed visible imaging of central-cell plasmas in the GAMMA 10 tandem mirror
Yousuke Nakashima, Plasma Research Center, University of Tsukuba

P6-17 Behavior of Hydrogen Fueled by Pellet Injection in the GAMMA 10 Tandem Mirror
Yuusuke Kubota, Plasma Research Center, University of Tsukuba

P6-18 Measurements of Oxygen Ion Spectra for Estimation of Electric Field Profiles in Cylindrical Plasmas
Takayuki Kobayashi, Plasma Research Center, University of Tsukuba

P6-19 Study of Edge Plasma Characteristics at H-mode Transition in Heliotron J
Shinya Watanabe, graduate school of energy science, Kyoto university

P6-20 Spectroscopic measurements of emission spectra by using multi-channel UV/visible impurity monitor
Ken Matama, Plasma Research Center, University of Tsukuba

P6-21 Line analysis of EUV spectra from molybdenum and tungsten injected in LHD
Malay Bikas Chowdhuri, Graduate University for Advanced studies

P6-22 Fast XUV 16× 16 array hybrid module for plasma imaging applications
Andrey Alekseev, Troitsk Institutre for Innovation and Fusion Research

P6-23 Comparison of Three Types of Impurity Diagnostics on Reheat Mode Discharges in the Compact Helical System
Chihiro Suzuki, National Institute for Fusion Science

P6-24 Improvement of AXUV bolometric measurement system at a semi-tangential cross-section in LHD
Naoki Tamura, National Institute for Fusion Science

P6-25 Spectroscopic Study of Plasma Flow Generated by Magnetoplasma Compessor with Transparent Electrodes
Jagos Puric, Faculty of Physics University of Belgrade

P6-26 Application of a soft-X ray imaging system to the STE-2 RFP
Onchi Takumi, Kyoto Institute of Technology

P6-27 Development of a soft-X ray imaging system for MHD studies in an RFP plasma
Akio Sanpei, Kyoto Institute of Technology

P6-28 Soft X-ray measurement in IRE on the TST-2 tokamak
Keisuke Sasaki, Graduate School of Engineering Sciences, Kyushu Univ.

P6-29 Soft X-ray emission profile and mode structure during MHD events in the TST-2 spherical tokamak
Hiroshi Hiroshi tojo, Graduate School of Frontier Sciences, The University of Tokyo

P6-30 Soft and Ultra-Soft X-ray Detector Array Systems for Measurement of Edge MHD Modes in the Large Helical Device
Fumitake Watanabe, Department of Energy Engineering and Science, Nagoya University

P6-31 Runaway Electrons as a Diagnostic of Plasma Internal Magnetic Fluctuations
Yongzhen Zheng, Southwestern Institute of Physics,

P6-32 The Investigation of Major Disruption Based on Plasma Current Beat-wave Excitation in IR-T1 Tokamak
Masoud Rezvani, Plasma physics research center,islamic azad university

P6-33 Development of a High Resolution X-Ray Imaging Crystal Spectrometer for Measurement of Ion-Temperature and Rotation-Velocity Profiles in Fusion Energy Research Plasmas*
Kenneth Wayne Hill, Princeton University Plasma Physics Laboratory

P6-34 Measurements of iron K lines using a wide band and compact X-ray crystal spectrometer in LHD
Ikuya Sakurai, EcoTopia Science Institute, Nagoya University

P6-35 Transport study of medium-Z impurities by means of X-ray Pulse-Height Analyzer in LHD
Sadatsugu Muto, National Institute for Fusion Science

P6-36 Development of advanced X-ray Imaging Crystal Spectrometer utilizing a large-area proportional count for KSTAR
Sang gon Lee, National Fusion Research Center

P6-37 Investigation of a novel X-ray tube for the calibration of the X-ray crystal spectrometer in the KSTAR machine
Jun-gyo Bak, National Fusion Reserach Center

P6-38 A hard x-ray tomography system for the MST Reversed Field Pinch
Rob Oconnell, University of Wisconsin – Madison

P6-39 Current profile estimation in full LHCD plasmas using Hard X-ray measurement along the top and bottom identical line of sight on TRIAM-1M
Kazuaki Hanada, Research Institute for Applied MEchanics

P9-01 Measurement on spatial distribution of visible line spectra in LHD
Hisamichi Yamazaki, Department of Fusion Science, School of Physical Science, Graduate University for Advanced Studies

P9-02 Spatial variation of the foil parameters from in situ calibration of the JT-60U imaging bolometer foil
Homaira Parchamy, National Institute for Fusion Science

P9-03 Tracking and Visualization of Sharp Interfaces in a Three-dimensional Plasma Simulations
Caesar Ondlan Harahap, The Graduate University for Advanced Studies

P9-04 Nonstop Lose-less Data Acquisition and Storing Method for Plasma Motion Images
Hideya Nakanishi, National Institute for Fusion Science

P9-05 Acquisition of Data for Plasma Simulation by Automated Extraction of Terminology from Article Abstracts
Lukas Pichl, International Christian University

P10-01 2D tomographic imaging of the edge turbulence in RFX-mod
Gianluigi Serianni, Consorzio RFX, Associazione EURATOM-ENEA sulla fusione

P10-02 Tomographic reconstruction of emissivity profile from tangentially viewed images using pixel method
Santanu Banerjee, Institute for Plasma Research

P10-03 Two-dimensional Spectroscopic Measurement of Deuterium Emission in JT-60U Detached Divertor Plasmas
Fujimoto Kayoko, Japan Atomic Energy Agency

P10-04 Soft x-ray tomography in fusion plasmas: the Reversed Field Pinch case
Paolo Franz, Consorzio RFX

P10-05 Tomographic reconstruction of internal instability in a field-reversed configuration
Tomohiro Kiguchi, College of Science and Technology, Nihon University, Tokyo, Japan

P10-06 Quantitative evaluation of tomographic resolution by coded penumbral imaging
Shinya Nozaki, Information and Communication Systems Engineering, Okinawa National College of Technology

P10-07 Application of Tomographic imaging to multi-pixel bolometric measurements
Yi Liu, National Institute for Fusion Science

P10-08 Spherical Harmonics Decomposition in 3-D Vector Tomography
Alexander Leonidovich Balandin, Institute of System Dynamics and Control Theory of Russian Academy of Sciences

P10-09 Single Particle Analysis of Image Data Acquired by Zernike Phase Contrast Transmission Electron Microscope
Radostin Stoyanov Danev, Okazak Institute for Integrative Bioscience, National Institutes of Natural Sciences (NINS)

P11-01 Neutron Radiographic Imaging of Irradiated Fission-, Spallation- and Fusion-Materials
Masayoshi Tamaki, Graduate School of Engineering, Nagoya University

P11-02 Application of the Liquid-crystal-based tunable Lyot filter to the Optical Emission Imaging Plasma Spectrometry
Shinichiro Kado, High Temperature Plasma Center, The University of Tokyo

P11-03 Development of the monitoring system of plasma behavior using a CCD camera in the GAMMA 10 tandem mirror
Hirokazu Kawano, Plasma Research Center, University of Tsukuba

P11-04 Development of phosphor screen having "gridded energy analyzer" for two- fluid nonneutral plasma experiments
Kohei Morita, Kyoto Institute of Technology, Department of Electronics

P12-01 Imaging challenges in long pulse nuclear fusion experiments
Ralf Koenig, Max-Planck-Institute for Plasma Physics

P12-02 Observation of toroidal asymmetric radiation in the Large Helical Device
Naoko Ashikawa, National Institute for Fusion Science

P12-03 Effects of face contour and features on occipitotemporal activity when viewing eye movement
Kensaku Miki, Department of Integrative Physiology, National Institute for Physiological Sciences

P12-04 Neural mechanism for processing of biological motion perception: An event-related potential study
Masahiro Hirai, Department of Integrative Physiology, National Institute for Physiological Science

P12-05 Centrifugal regulation of human cortical responses to a task-relevant somatosensory signal triggering voluntary movement: An MEG study.
Tetsuo Kida, Department of Integrative Physiology, National institute for Physiological Sciences

P12-06 The magnetoencephalographic neural activity related to the perception of apparent motion defined by various cues
Emi Tanaka, National Institute for Physiological Science