

Invited Speakers

Cross-disciplinary:

1. Hiroyuki Arakawa (Shimane University), Wave, flow and vortex: the third structure in drift wave turbulence
2. T. Yamada (Kyushu University), Three Dimensional Structure of Streamer in Drift Wave Fluctuations
3. Y. Kosuga (Kyushu University), How secondary flow is selected in drift wave turbulence: Role of parallel flow shear
4. Ashwin Joy (Indian Institute of Technology), Phase Transitions in Active Matter Systems
5. Shi-ichi Takehiro (Kyoto University), Thermal convection and induced mean zonal flows in rotating spherical shells
6. Hidenori Aiki (Nagoya U.), Towards a seamlessly diagnosable expression for the energy flux associated with both equatorial and mid-latitude waves
7. Kumiko Hori (Kobe U.), Slow magnetic Rossby waves in Earth's core
8. Jiayong Zhong (Beijing Normal University), Particles Acceleration during Laser Driven Magnetic Reconnection in a Low-beta Plasma
9. M. Jiang (SWIP), Multi-scale interactions between magnetic island and turbulence on HL-2A tokamak
10. Zhibin Guo (Peking University), How Toroidal Coupling Induces Phase Jumps and Zonal Flow Shear Layer Patterns
11. Norman M. Cao (MIT), Observation and Quasilinear Modeling of Rotation Reversal Hysteresis in Alcator C-Mod Plasmas
12. Rameswar Singh (UCSD), Intrinsic parallel current generation from ETG turbulence in a cylindrical plasma
13. Yign Noh (Yonsei University), LES of Turbulent Particle-Laden Flows in Nature: from Plankton to Clouds
14. Eunok Yim (EPFL), Global stability of pancake vortices in rotating and stratified fluids
15. CS Liu (University of Maryland), Nonlinear development of Stimulated Raman Backscattering Instability with trapped electrons
16. Won-Ha Ko (NFRU), Rotation and momentum transport in magnetic confined plasmas
17. S. Cappelletto (Consorzio RFX), Magnetic self-organization in confined plasmas
18. Richard Sydora (University of Alberta), Kinetic Theory and Simulation of the Current Sheet Shear Instability in 3D Magnetic Reconnection
19. Takahiro Iwayama (Fukuoka University), Forced-dissipative turbulence governed by generalized two-dimensional fluid systems
20. Yoshi-Yuki Hayashi (Kobe University), Turbulence, waves and momentum transfer in geophysical fluids
21. M. Zhang (National Astronomical Observatories, CAS), Helicity transport from the solar convection zone to interplanetary space
22. PF Chen (Nanjing University), Magnetic self-organization and reconnection in the solar atmosphere
23. Hiroshi Niino (University of Tokyo), Tornadoes: Their Structure, Genesis Mechanism and Environment
24. G. Dif-Pradalier (CEA/IRFM), Global Staircase Organization in Magnetized Plasmas

Fundamental:

1. Shinya Maeyama (Nagoya University), Effects of electron-scale turbulence on ion-scale turbulence in Tokamak plasmas
2. P. Hennequin (Ecole Polytechnique), Overview of plasma turbulence structure studies in the ASDEX Upgrade tokamak
3. Cami S. Collins (GA), optimizing future burning plasmas through experiments to understand & control transport of fast ions by Alfvén eigenmodes
4. Tatsuya Kobayashi (NIFS), Experimental investigation of the L-H transition dynamics
5. Pengjun Sun (ASIPP), Experimental Study of Multi-scale Interaction between (Intermediate, Small)-scale Microturbulence and MHD modes in EAST Plasmas
6. Zhisong Qu (ANU), Energetic Geodesic Acoustic Mode (EGAM) as a two-stream instability and EGAM linear mode study in various regime
7. Emily A. Belli (GA), Impact of centrifugal drifts on ion turbulent transport
8. Zhiyong Qiu (Zhejiang University), Nonlinear decay and plasma heating by toroidal Alfvén eigenmode
9. TS Hahm (SNU), Modern gyrokinetic description of residual zonal flows
10. Y. Ono (U. Tokyo), Direct access to the burning plasma by high-power reconnection heating of merging tokamaks
11. Naoki Sato (U. Tokyo), Statistical Mechanics of Topologically Constrained Systems: Application to Self-Organizing Diffusion in Plasmas
12. Matthew Hole (ANU), Energetic particle driven mode activity: advances in understanding from linear through hard nonlinear regime
13. Makoto Sasaki (Kyushu University), Selection of flow chirality in drift-mode and D'Angelo-mode fluctuations
14. Ruirui Ma (SWIP), Theoretic study of the nonlinear energetic particle mode dynamics in tokamaks
15. Y. Kawazura (University of Oxford), Relativistic Extended Magnetohydrodynamics: action formalism and physical properties
16. Kaijun Zhao (SWIP), Sawtooth heat pulses interacting with plasma flows, turbulence, and gradients in the tokamak edge plasmas
17. Lai Wei (DUT), Nonlinear interaction between drift tearing modes and slab-ITG-modes
18. Y. Yatsuyanagi (Shizuoka University), Correlation function in long-range interacting point vortex system
19. David Zarzoso (Aix-Marseille Université), Impact of energetic geodesic acoustic modes on transport in fusion plasmas
20. S. Usami (NIFS), Particle Simulation Studies on Effective Ion Heating during Magnetic Reconnection
21. Hogun Jhang (NFRU), Magnetic field stochasticization and transport process during edge pedestal collapse simulations
22. Jianxing Li (Xi'an Jiaotong University), Attosecond Gamma-ray generation via nonlinear Compton scattering and single-shot carrier-envelope phase determination of long PW laser pulses
23. Sumin Yi (NFRU), A gyrokinetic simulation study of parallel flow fluctuation effects on zonal flow generation
24. CZ Cheng (NCKU), Heating/Acceleration of Electrons and Ions in Driving Magnetic Reconnection

Basic:

1. M. Yagi (QST), NEXT (Numerical EXperiment Tokamak) project and future prospect of burning plasma simulation
2. Akihiro Ishizawa(Kyoto University), Multi-scale interaction and parity mixture between turbulence and magnetic islands
3. H. Ohtani(NIFS), Combination of particle-in-cell simulation with analysis by in-situ and virtual-reality visualization for investigation of plasma physics
4. Haruki Seto(QST), A pseudo-spectrum scheme for ELM crash simulation with $n=0$ flow and field driven by short wave length instabilities
5. Yuuichi Asahi(QST), Benchmarking of flux-driven full-F gyrokinetic simulations
6. Shinichiro Toda(NIFS), Reduced model for gyrokinetic electron and ion turbulent transport in helical plasmas
7. Lei Chang(Sichuan University), Gap eigenmode in linear plasma: theory and simulation
8. Than Tinh Tran (NFRF), Zonal Flow Pattern Formation in Coupled Drift Wave Turbulence and Parallel Flow Fluctuations: A Computational Study
9. Ding Li(IOP), The effects of high magnetic field on plasma kinetic equations and transport
10. Daniel Grosej (Max Planck, IPP), Dissipation Range Physics in Solar Wind Turbulence: New Insights from Fully Kinetic Simulations
11. N. Chakrabarti (Saha Institute of Nuclear Physics), Nonlinear Dispersive Wave Solutions in Compressible Magnetized Plasmas Exhibiting Collapse
12. Punit Kumar (University of Lucknow), Two stream instability in magnetized quantum plasma with spin-up and spin-down exchange interaction or Surface Plasma Wave in Semiconductor Quantum Plasma with Spin-up and Spin-down Exchange Interaction
13. Pintu Bandyopadhyay (IPR), Experiments in flowing dusty plasma
14. Mierk Schwabe (German Aerospace Center), Crystallization in three-dimensional complex plasmas
15. Chengran Du (Donghua University), Wave phenomena at the interface of a binary complex plasma: experiments and simulations
16. Yan Feng (Soochow University), Transport of magnetized two-dimensional Yukawa liquids
17. Nareshpal Singh Saini (Guru Nanak Dev University), Effect of polarization force on nonlinear excitations in dusty plasmas
18. A. Escarguel (Aix-Marseille Université), Study of instabilities in cross-field plasma configurations
19. A. Khare (University of Delhi), Thermodynamic processes and free expansion in dusty plasmas
20. Roger Hutton (Fudan University), Proposal of highly accurate tests of Breit and QED effects in many-electron systems
21. Heremba Bailing (Institute of Advanced Study in Science and Technology), Experimental observation of cylindrical dust acoustic soliton in strongly coupled dusty plasma
22. Motoshi Goto (NIFS), Collisional-radiative mode of neutral helium and its application to plasma diagnosis
23. Xi-Ming Zhu (Harbin Institute of Technology), Atomic and ionic processes in low-temperature Ar, Kr, and Xe plasmas: cross section data and collisional- radiative model
24. Shinichi Namba (Hiroshima University), Anomalous enhancement of water window X-rays emitted from laser produced Au plasma under low-pressure nitrogen atmosphere
25. H. Ohashi (Toyama University), Characteristics of water-window soft X-ray emission from bismuth plasmas
26. N. Nakamura (The University of Electro-Communications), Collisional and radiative processes of highly charged iron ions studied with an electron beam ion trap
27. S. Nishiyama (Hokkaido University), Applications of Saturation Spectroscopy to Plasma Diagnostics
28. Jun Xiao (Fudan University), Recent Fusion Related Tungsten Spectroscopy Studies at Shanghai EBITs
29. G.Y. Liang (NAO-CAS), X-ray and extreme-ultraviolet spectroscopy in astrophysical and laboratory plasmas
30. T. Kawamura (Tokyo Institute of Technology), Lasing potential of extreme-ultraviolet (EUV) light of nitrogen with a recombining plasma scheme
31. S. Kado (Kyoto University), Diagnostics to Investigate Thermal Equilibrium /Disequilibrium Features ~ in Fusion Edge And Laboratory Discharge Low-temperature Plasmas ~
32. H. Nakano (NIFS), Diagnostics for negative hydrogen ion
33. Chunfeng Dong (SWIP), Observation of tungsten EUV line emissions in low ionization stages of W^{6+} and W^{7+} ions and analysis of tungsten influx rate in HL-2A
34. Yuichiro Ezoe (Tokyo Metropolitan University), High Resolution X-ray Spectroscopy of Astrophysical Plasmas with X-ray Microcalorimeters
35. Fuminori Tsuchiya (Tohoku University), Remote sensing of planetary and satellite atmospheres and aurorae through ultraviolet spectroscopy
36. Hirohisa Hara (National Astronomical Observatory of Japan), Plasma Dynamics in the Solar Corona Revealed from Emission-Line Spectroscopy
37. Meghraj Sengupta (IPR), Investigating cylindrically and toroidally confined non-neutral plasmas with Particle-in-Cell Simulations
38. K. Akaike (Kyoto Institute of Technology), Experiments on intermittent ion leakage from BX-U linear trap during potential barrier closure
39. Masaki Nishiura (The University of Tokyo), Experimental approach for understanding self-organized plasma transport in laboratory magnetosphere RT-1
40. S. Jaiswal (DLR & Auburn University), Dynamical structure formation due to complex plasma flow past an obstacle.
41. Nicolas Besse (Observatoire de la Côte d'Azur), Regularity of the geodesic flow of the incompressible Euler equations on curved spaces
42. Thomas Trottenberg (University Kiel), On the importance of determining the momentum transfer due to energetic particles from process plasmas to solid surfaces
43. Bornali Sarma (VIT Chennai), Characteristic behavior of plasma fluctuations inside plasma bubble in presence of magnetic field due to the formation of potential well
44. M. Fukunari (The University of Tokyo), Experimental investigation on millimeter-wave discharge induced in gas
45. Anbang Sun (Xi'an JiaoTong University), Understanding the start of pulsed discharges in atmospheric air with 3D particle simulations
46. Akio Sanpei (KIT), Reconstruction of three-dimensional emissivity structure with integral photography technique

47. Amar Prasad Misra (Visva-Bharati University), Surface plasmons in a massless Dirac plasma
48. K. Terasaka (Kyushu University), Density and flow field structures of partially ionized plasma in laboratories
49. Hong-Yu Chu (National Chungcheng University), Diffusion-limited aggregation-like patterns produced by atmospheric plasma jet
50. Sanghoon Park (KAIST), Plasma-functionalized solution and its applications
51. Wonho Choe (KAIST), Creation of electric wind due to the electrohydrodynamic force
52. Tsun Hsu Chang (National Tsing Hua University), nonlinear dynamics of the electron cyclotron maser, high power sub-Terahertz physics, and the characterization of the microwave/nano- particles interaction (tentative)
53. Sanat Kumar Tiwari (Indian Institute for Technology), Heating and collective effects in ultra cold plasmas
54. Cormac Corr (Australian National University), High-Power Hydrogen Plasmas in the Magnetised Plasma Interaction Experiment (MAGPIE)
55. D. Kuwahara (Tokyo University of Agriculture and Technology), Study of Helicon Plasma Thruster using Internal Gas Feeding Method
56. Keh-Chyang Leou (National Tsing Hua University), Development of Microwave Based Plasma Density Sensors for Process Monitoring and Feedback Control of Plasma Processing Tools
57. M. Aramaki (Nihon University), Development of Optical Vortex Doppler Spectroscopy: Azimuthal Doppler Shift and Phase Gradient
58. Yongtao Zhao (Xi'an Jiaotong University), Stopping of low energy ion beam in a foam-plasma
59. S. Matsuoka (NIFS), Global full-f kinetic simulation of neoclassical transport in stellarator/heliotron plasmas

Applied:

1. Erik Johnson (Ecole Polytechnique), Tailored Voltage Waveform plasmas for Control of Surface Processing
2. Changlun Chen (ASIPP), The preparation and functionalization of nano- materials with plasma technique and their application in environmental pollutant treatment
3. Xiao Xia Zhong (Shanghai Jiaotong University), Micoplasma in close proximity to liquid and its applications in synthesis of nanomaterials
4. Lanbo Di (Dalian University), Atmospheric-pressure cold plasma for synthesizing supported metal catalysts with the assistance of ethanol
5. Hitoshi Tamura (Hitachi High- Technologies Corporation), Study on uniform plasma generation mechanism of Electron Cyclotron Resonance etching reactor
6. D. Subedi (Kathmandu University), Generation of dielectric barrier discharge (DBD) at near atmospheric pressure and its application for surface treatment of polymers
7. Giichiro Uchida (Osaka University), Production control of reactive oxygen and nitrogen species in liquid water by using a nonthermal plasma jet
8. N. Itagaki (Kyushu University), Sputter epitaxy of high quality $(\text{ZnO})_x(\text{InN})_{1-x}$: a new semiconducting material for excitonic devices
9. Kateryna Bazaka (Queensland University of Technology), Plasma-activated small molecules
10. Dehui Xu (Xi'an Jiaotong University), Regulation of reactive species in gas plasma and the application in tumor therapy
11. Maik Froehlich (INP Greifswald), A combined PIII and HiPIMS plasma source for thin film deposition
12. Weizong Wang (Beihang University/ University of Antwerp), Plasma based CO_2 conversion into value added products: better insights from computer modelling
13. M. Shinohara (National Institute of Technology, Sasebo College), Plasma induced surface reaction, considered with multiple-internal-reflection infrared absorption spectroscopy
14. Qiuyue Nie (Harbin Institute of Technology), Experimental studies on electromagnetic radiation intensification in GHz band by sub-wavelength plasma structures
15. Hirotaka Toyoda (Nagoya University), Influence of magnetic field on high-energy negative ion behavior in magnetron plasma with oxide targets
16. Suresh C. Sharma (Delhi Technological University), Effect of doping on the Growth and Electronic Properties of Graphene - Carbon Nanotube Hybrid
17. He-Ping Li (Tsinghua University), Non-equilibrium Characteristics of Atmospheric-Pressure Thermal Plasmas
18. Shuyan Xu (Nanyang Technological University), Design and test of miniaturized plasma thrusters at the Plasma Sources and Applications Centre, Singapore
19. S. Sharma (IPR), A magnetic field augmented single frequency capacitively coupled plasma device
20. EH Choi (Kwangwoon University), Plasma Medicine and its Mechanism for Cancer Therapy
21. Maxime Mikikian (University Orleans), In-situ observation and diagnostics of nanoparticle forming plasmas in hydrocarbon containing gas mixtures
22. Shinya Iwashita (Tokyo Electron Technology Solutions Ltd.), Ion energy control in capacitively coupled discharges for PEALD processes
23. Kuniko Urashima (National Institute of Science and Technology Policy), Critical review of plasma technologies for industrial applications
24. Yu-Ru Zhang (Dalian University of Technology), Plasma characteristics in an electrically asymmetric capacitive discharge sustained by multiple harmonics: operating in the very high frequency regime

Laser:

1. Takayoshi Sano (Osaka University), Interfacial magneto-hydrodynamic instabilities in astrophysical and laser plasmas [**semi-plenary**]
2. P. Tzeferacos (The University of Chicago), Dynamo amplification of magnetic fields in a turbulent laser produced plasmas [**semi-plenary**]
3. Wing-Huen Ip (National Central University), An Overview of the Surface Irradiation and Charging of Icy Moons and Ring Particles [**semi-plenary**]
4. Katsuji Koyama (Kyoto University), Astrophysical Plasma in Supernova Remnants, Galactic Center and Protostars [**semi-plenary**]
5. Hantao Ji (PPPL), Frontiers of laboratory experiments to study magnetic reconnection relevant to space plasmas [**semi-plenary**]
6. Joerg Buchner (Max-Planck-Institut für Sonnensystemforschung), Reconnection and eruptions in Solar Plasmas [**semi-plenary**]
7. Peter A Norreys (Rutherford Appleton Lab.), Overview of some key achievements on the route to IFE [**semi-plenary**]
8. Yutong Li (IOP), Novel large-energy terahertz radiation sources from intense laser-foil interactions [**semi-plenary**]
9. M. Koenig (Ecole Polytechnique), Collaboration experiments at LULI [**semi-plenary**]
10. T. Yabuuchi (RIKEN Spring-8 Center), Current status of experimental platform for laser-based plasma physics at the XFEL facility SACLA [**semi-plenary**]
11. Mitsuo Nakai (Osaka University), Users program using GXII and LFEX at ILE [**semi-plenary**]
12. Bruce Remington (LLNL), Discovery Science program on the NIF [**semi-plenary**]
13. A. Macchi (National Institute of Optics, NRC), Laser driven Ion Acceleration Mechanisms [**semi-plenary**]
14. Il Woo Choi (GIST), Laser-driven ion acceleration from the interaction of ultrashort ultrahigh-contrast multi-petawatt laser and thin solid target [**semi-plenary**]
15. Dieter Hoffmann (Xi'an Jiaotong U.), Overview of the heavy ion beam plasma research [**semi-plenary**]
16. Shinsuke Fujioka (Osaka University), FIREX (Fast Ignition Realization EXperiment) project in Japan [**semi-plenary**]
17. F. Albert (LLNL), Betatron x-ray radiation in the self-modulated laser wakefield acceleration regime: prospects for a novel probe at large scale laser facilities [**semi-plenary**]
18. Farhat Beg (UCSD), High Energy Density Physics [**semi-plenary**]
19. O.L. Landen (LLNL), Indirect-Drive ICF Progress at NIF
20. Frederico Fiuza (SLAC National Accelerator Laboratory), Advances in experiments and simulations on astrophysical relevant particle accelerations using laser plasmas
21. L. Romagnani (Ecole Polytechnique), Dynamics of the Electromagnetic Fields induced by Fast Electrons propagation in Near Solid-Density Media
22. Marija Vranic (Universidade de Lisboa), Laser-particle interactions at extreme intensities
23. R. Alessandra (LULI), Warm Dense Matter Studies relevant for planetary science
24. Alexey Arefiev (UCSD), Leveraging extreme laser-driven magnetic field for intense gamma-ray generation
25. Gianluca Sarri (Queen's University Belfast), Experimental investigation of strong radiation reaction in the field of an ultra-intense laser
26. Atul Kumar (IPR), In-Situ Ion Heating With Pulsed CO₂ Lasers
27. Alexis Casner (CELIA), Turbulent Hydrodynamics Experiments in High Energy Density settings
28. T. Blackburn (Chalmers University), Radiation reaction in laser-electron beam interactions
29. Natsumi Iwata (Osaka University), Physics of relativistic picosecond laser interaction with dense plasma
30. Derek Schaeffer (PPPL), Experimental studies of high Mach number collisionless shocks in magnetized plasmas
31. Alec Thomas (University of Michigan), Tuning laser wakefield driven betatron x-rays for imaging application
32. Y. Mori (The Graduated School for the Creation of New Photonics Industries), Compact Fast Ignition experiments using Joule-class drive pulses under counterbeam configuration
33. Limin Chen (IOP), Gamma ray emission from wakefield accelerated electrons wiggling in laser field
34. B. Qiao (IAPCM), Stable laser ion radiation pressure acceleration
35. M. Nishiuchi (QST), Ion acceleration experiments with high contrast high intensity laser system "J-KAREN-P" --How the finite contrast condition affects the laser matter interaction--
36. G. Fiksel (U. Michigan), Turbulent magnetic reconnection initiated by kinetic instabilities in colliding laser-produced plasmas
37. Shohei Sakata (Osaka University), Efficient creation of ultra-high-energy-density states by magnetized fast isochoric laser heating
38. Ram Gopal (Tata Institute of Fundamental Research), Intense Laser Plasma interactions with kHz, mJ class lasers
39. Woosuk Bang (GIST), Rapid and uniform heating of matter with a laser-driven ion beam
40. Luca Volpe (CLPU & University of Salamanca), Recent advancement at CLPU Salamanca
41. Su-Ming Weng (Shanghai Jiao Tong University), Magnetic controlling of high-power laser pulses and their interactions with plasmas
42. Joerg Schreiber (Universität München), Relativistic laser interaction with isolated micro-plasma

Space:

1. Hamid Saleem (IST, Pakistan^[1]), Ions shear flow and electron field-aligned current produce ion acoustic waves in the oxygen-hydrogen ionospheric plasma
2. Vipin K Yadav (SPL / VSSC / ISRO / DOS), Plasma Waves in Universe
3. Meng Zhou (Nanchang University), MMS Observations of Magnetic Reconnection
4. Akira Kageyama (Kobe University), MHD relaxation and dynamo in a sphere
5. Igor Levchenko (Nanyang Technological University), Space Plasma Propulsion for Cubesats and small satellites
6. Bruce Tsurutani (Caltech), The Evolution of Cometary and Interplanetary Plasma Turbulence From Experimental Observations: A New Scenario
7. Tohru Hada (Kyushu University), Anomalous transport of cosmic rays in MHD turbulence
8. Yasuhiro Nariyuki (University of Toyama), Damping processes of large amplitude Alfvén waves in the solar wind
9. S. Matsukiyo (Kyushu University), Microstructure of high beta quasi-perpendicular shock and associated electron dynamics
10. EW Kim (PPPL), Full-wave modeling of ULF wave propagation in the Earth's magnetosphere
11. Hyomin Kim (New Jersey Institute of Technology), Van Allen Probes observations of wave and particle dynamics in the ring current of the Earth's magnetosphere
12. Kunihiro Keika (The University of Tokyo), Mass and charge dependent characteristics of Earth's magnetospheric plasma
13. Xuzhi Zhou (Peking University), Resonant interactions between charged particles and ULF waves: theory and observations
14. Jongho Seon (Kyung Hee University), Space weather monitor KSEM on board the Korean geostationary satellite GEO-KOMPSAT-2A
15. Patrick Aulf (Max Planck IPP), Kinetic Instabilities in Space Plasmas: Towards Maximum Realism
16. Chris Crabtree (NRL), Nonlinear Whistler Wave Physics in the Laboratory and in the Radiation Belts
17. Y. Miyoshi (Nagoya University), Relativistic electron acceleration in Earth's Van Allen Belt: Observations from the Arase satellite
18. Paul Cally (Monash University), Stairway to Heaven: Multistage propagation of Waves from the Solar Interior to the Corona
19. Yuming Wang (USTC), On the twist of magnetic flux ropes in the corona and solar wind
20. Zhigang Yuan (Wuhan University), Recent progress in magnetospheric EMIC waves
21. Feng xueshang (National Space Science and Technology Center), Data driven simulation of solar wind
22. Y. Omura (Kyoto University), Plasma waves with focus on the radiation belts dynamics
23. Du Aimin (Institute of Geology and Geophysics, CAS), Controlling of geomagnetic field on the coupling of solar wind-magnetosphere.
24. Liuyuan Li (Beihang University), Compression-amplified EMIC waves and their effects on relativistic electrons
25. Lou-Chuang Lee (Institute of Earth Sciences, Academia Sinica), Observational, theoretical and simulation studies on EMIC waves generated by fast shocks in the magnetosphere and solar wind

Solar/Astro:

1. Alard Jan van Marle (UNIST), Using combined PIC and MHD to model particle acceleration in galaxy cluster shocks
2. Alina Donea (Monash University), Waves and solar flare seismology from photosphere to corona
3. Rony Keppens (KU Leuven), Magnetic reconnection during eruptive magnetic flux ropes
4. Chun Xia (Yunnan University), MHD simulations on the origin and dynamics of solar prominence plasma
5. Yao Chen (Shandong University), Moving Type-IV Solar Radio Bursts: Observational Characteristics and Possible Emission Mechanism
6. Xin Cheng (Nanjing University), Fractal Magnetic Reconnection in a Current Sheet
7. Yusuke Tsukamoto (Kagoshima University), The formation of protostars and protoplanetary disks with all the three non-ideal MHD effects
8. Kazunari Iwasaki (Osaka University), The phase transition dynamics and the formation of magnetized molecular clouds in the interstellar medium
9. Hui Tian (Peking University), Observations of magnetic reconnection in the partially ionized lower solar atmosphere
10. Jun Lin (Yunnan Astronomical Observatories), Multiple-scale Physics of Coronal Mass Ejection
11. Takanobu Amano (The University of Tokyo), Particle-in-cell simulations for high Mach number shocks
12. Cong Yu (Sun Yat-Sen University), Twisted induced Eruptions in magnetars
13. Dongsu Ryu (UNIST), PIC simulations of collisionless shock waves in clusters of galaxies
14. H. Hotta (Chiba University), High Resolution Simulations of Solar Convection Zone and Dynamo
15. J. Cho (Chungnam National University), Measuring properties of magnetic fields in astrophysical fluids
16. Jansen He (Peking University), Energy dissipation and distribution among particle species for Alfvénic turbulence at kinetic scales in wavenumber space
17. Daniel Price (Monash University), Modeling star formation from first principles
18. T. Suzuki (University of Tokyo), Global Simulations of Magnetic Activities in the Galactic Central Region
19. JC Chae (Seoul National University), Observations and Theory of Three-minute Oscillations in the Sunspot Chromosphere
20. Tetsuya Magara (Kyung Hee University), Evolution of Solar Magnetic Fields - From Emergence to Eruption
21. S. Takasao (Nagoya University), MHD waves and shocks associated with solar reconnection as a model of solar flares
22. Yutaka Ohira (The University of Tokyo), Particle accelerations, plasma instabilities, and collisionless shocks in partially ionized plasmas
23. Feng Yuan (Shanghai Astronomical Observatory), Numerical simulation of black hole accretion disks
24. Shin Toriumi (NAOJ), How Can We Create Flare-producing Sunspots?

Magnetic Fusion:

1. Hiroshi Yamada (NIFS), Exploration of isotope effects on thermal and particle transport in Large Helical Device
2. Yeong-Kook Oh (NFRF), Highlight of the KSTAR experimental research to resolve issues in the steady-state high beta operation in ITER and K-DEMO
3. Min Xu (SWIP), Recent advances in the HL-2A experiments
4. Francois Orain (Ecole Polytechnique Paris), Non-linear modeling of the threshold between ELM mitigation and ELM suppression by resonant magnetic perturbations in ASDEX Upgrade
5. H. Park (UNIST), Role of the magnetic shear on the core MHD instabilities (1/1 kink and high order tearing modes) in tokamak plasmas
6. Jaehyun Lee (NFRF), Bifurcation of perpendicular flow and increase of turbulent fluctuations in the transition of ELM-crash suppression
7. Ryosuke Seki (NIFS), Comprehensive magnetohydrodynamic hybrid simulations of fast ion losses due to the Alfvén eigenmodes in the Large Helical Device
8. H. Idei (Kyushu University), Fully Non-inductive Electron Cyclotron Current Ramp-up with Focused 28GHz Beams in the QUEST Spherical Tokamak
9. Fang Ding (ASIPP), Active Control of Plasma Wall Interaction and Core Impurity towards High Performance Long Pulse operation in EAST
10. Sven Wiesen (Forschungszentrum Jülich), modelling radiative power exhaust in view of DEMO relevant scenarios
11. Rafi Nazikian (PPPL), Enhanced grassy-ELM regime enabled by edge-resonant magnetic perturbations in the DIII-D tokamak
12. Eric Fredrickson (PPPL), Global Alfvén eigenmode stability dependence on fast-ion distribution function
13. Kazuaki Hanada (Kyushu University), Fuel particle balance for steady state operation on all-metal fusion experimental device, QUEST
14. Y. Ren (PPPL), Experimental Observation of High-k Turbulence Evolution across L-H Transition in NSTX
15. J.R. Harrison (CCFE), Detachment Dynamics and Control in JET H-Mode Plasmas
16. Linjin Zheng (University of Texas), MHD stability in negative triangularity tokamaks
17. Felix Warmer (Max Planck, Greifswald), Transport and confinement in Wendelstein 7-X divertor plasmas
18. Yi Liu (SWIP), Recent Progress in Studies of MHD activities and their Control on HL-2A tokamak
19. F. Maviglia (EURUFusion), Overview of DEMO Technology and Scenario Design activities in Europe
20. AJ Creely (MIT), Characterization of Multi-Scale Turbulent Transport Physics using TGLF on Alcator C-Mod and ASDEX Upgrade
21. Juhyeok Jang (KAIST), Krypton-induced ELM suppression and internal transport barrier formation in KSTAR plasmas
22. Michael Reinhart (EURUFusion), Progress in European research towards efficient Plasma-Facing Components for ITER and DEMO
23. A. Loarte (ITER-Organization), The ITER Research Plan and supporting R&D in present experiments
24. Hyungho Lee (NFRF), Divertor target heat and particle flux dynamics during long term RMP-ELM suppressed regimes in KSTAR
25. Jeronimo Garcia (CEA), Optimization of high beta steady-state scenarios at TCV in support of JT-60SA
26. Young-Seok Park (Columbia University), Investigation of MHD instabilities and active mode control supporting disruption
27. Seung-Gyou Baek (MIT), Observation of efficient lower hybrid current drive at reactor-level densities on Alcator C-Mod
28. DB Weisbergd (GA), Development and extension of the non-inductive high beta poloidal regime to ITER relevant dimensionless parameters on DIII-D
29. Rudolf Neu (Max Planck, Garching), Plasma Wall Interaction Research at IPP for ITER and beyond
30. Rui Ding (ASIPP), Recent progress in understanding of high-Z material erosion and re-deposition in tokamaks with a mixed materials environment
31. Qingwei YANG (SWIP), Progress of the HL-2M tokamak
32. Ahmed Diallo (PPPL), Energy Exchange Dynamics across L-H transitions in NSTX
33. A. Ito (NIFS), The growth of tungsten fuzzy nanostructure by BCA-MD-KMC multi-hybrid simulation
34. M. Baruzzo (EUROfusion), JET disruption mitigation and avoidance in support of DT operation and ITER
35. Saskia Mordijck (The College of William and Mary), Role of fueling versus transport in determining the core density profile
36. Jun Cheng (SWIP), Pedestal dynamics in high-intermediate-high confinement transitions on HL-2A
37. W.C. Lee (NFRF), Study of quasi-coherent modes in KSTAR ECH and ohmic plasmas
38. Jae-Min Kwon (NFRF), Gyrokinetic Simulation Study of Magnetic Island Effects on Neoclassical Physics and Micro-Instabilities in a Realistic KSTAR Plasma
39. S. Kobayashi (Kyoto University), Study of operation scenarios for high density plasma formation in Heliotron J
40. H. Cai (USTC), Influence of toroidal rotation on magnetic islands in tokamaks
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