

MF1 (Magnetic Fusion 1 - Core)				2021.07.04 AAPPS-DPP	
No	Name	Affiliation	Title	P, TP, I	Subcategory
1	Won-Ha Ko	Korea Institute of Fusion Energy	Overview of KSTAR Experiments and Future Plans	Plenary	8. MF1 (Core plasma)
2	Kenichi Nagaoka	National Institute for Fusion Science	Physics overview of transport study in the Large Helical Device	Plenary	8. MF1 (Core plasma)
3	Yasushi Todo	National Institute for Fusion Science	Validation and extension of kinetic-magnetohydrodynamics hybrid simulation for the prediction of burning plasmas	Plenary	8. MF1 (Core plasma)
4	Richard Hawrylik	Princeton Plasma Physics Laboratory	US New Direction in MCF : Bringing Fusion to the U.S. Grid (2021), Burning Plasma Research (2019)	Plenary	8. MF1 (Core plasma)
5	Emmanuel Joffrin	CEA, IRFM, F-13108 Saint Paul Lez Durance, France	Overview of the European Tokamak Programme in the new European Framework Programme	Topical Plenary	8. MF1 (Core plasma)
6	Nengchao Wang	Huazhong University of Science and Technology	Recent progress on the 3D physics in J-TEXT	Topical Plenary	8. MF1 (Core plasma)
7	Yasuhiro Idomura	Japan Atomic Energy Agency	A new synergy effect between neoclassical and turbulent particle transport in ion temperature gradient driven turbulence	Topical Plenary	8. MF1 (Core plasma)
8	Philip Schneider	MPI for Plasma Physics	Scientific progress in tokamak physics with different main ions	Topical Plenary	8. MF1 (Core plasma)
9	Hajime Urano	National Institutes for Quantum and Radiological Science and Technology	Development of plasma control schemes and plan of plasma physics studies in JT-60SA	Topical Plenary	8. MF1 (Core plasma)
10	Samuele Mazzi	Aix-Marseille University / CEA Cadarache	Exploring New Frontiers of the Ion-Scale Turbulence Suppression by Fast Ions	Invited	8. MF1 (Core plasma)
11	Jose Garcia-Regana	CIEMAT	Turbulent transport of impurities in stellarators	Invited	8. MF1 (Core plasma)
12	Jiayan Liu	Dalian University of Technology	Tungsten impurity effects on the coupling of TEM and ITG mode in tokamak plasmas	Invited	8. MF1 (Core plasma)
13	Boseong Kim	Department of Nuclear Engineering, Seoul National University	On access of hybrid scenarios by interplay between core-edge-SOL in KSTAR	Invited	8. MF1 (Core plasma)
14	Yong-Su Na	Department of Nuclear Engineering, Seoul National University,	A Stationary Ion Internal Transport Barrier Discharges with the Support of Fast Ions in Diverted Configuration on KSTAR	Invited	8. MF1 (Core plasma)
15	Y-K Martin Peng	Enn Science and Technology Development Co., Ltd, Langfang, China	Goals and Initial Progress of EXL-50 Experimental Plasma Physics Research	Invited	8. MF1 (Core plasma)
16	Tomas Odstrcil	General Atomics	Main Ion Isotope dependence of impurity transport in ion and electron-heating dominated H-mode plasmas in the DIII-D tokamak	Invited	8. MF1 (Core plasma)
17	Shishir Purohit	Institute For Plasma Research	Characterization of the plasma current quench during disruptions in ADITYA Tokamak	Invited	8. MF1 (Core plasma)
18	Paola Mantica	Institute for Plasma Science and Technology, National Research Council, Milano, Italy	Integrated modeling of the Divertor Tokamak Test facility plasma scenarios	Invited	8. MF1 (Core plasma)
19	Wei Shen	Institute of Plasma Physics, CAS	Simulations of fishbones with reversed safety factor profile and Energetic Particle Modes in the EAST tokamak	Invited	8. MF1 (Core plasma)
20	SHOUXIN WANG	Institute of Plasma Physics, CAS	Investigation of particle transport in deuterium and helium plasmas on EAST tokamak	Invited	8. MF1 (Core plasma)
21	Long Zeng	Institute of Plasma Physics, Chinese Academy of Sciences	Observation of runaway electron related relaxation phenomena during disruptions in the EAST tokamak	Invited	8. MF1 (Core plasma)
22	Lunan Liu	Institute of Plasma Physics, Chinese Academy of Sciences	Overview of ion cyclotron emission detection and explanation in EAST tokamak	Invited	8. MF1 (Core plasma)
23	Erzhong Li	Institute of Plasma Physics, Chinese Academy of Sciences, Hefei, Anhui, P.R. China	Observation of intrinsic plasma current generated by electron temperature gradient driven turbulence in stationary high electron energy confinement plasmas	Invited	8. MF1 (Core plasma)
24	Andrej Lier	IPP Garching	Alpha particle driven Alfvénic instabilities in ITER post-disruption plasmas	Invited	8. MF1 (Core plasma)
25	Yves Paysson	IRFM/CEA, F-13018, St-Paul-les-Durance CEDEX	Lower Hybrid current drive in conditions of an unbridgeable spectral gap by toroidal refraction	Invited	8. MF1 (Core plasma)
26	Anna Medvedeva	ITER Organization	Assessment of L-H transition detection in ITER PFPO phases with synthetic diagnostics	Invited	8. MF1 (Core plasma)
27	Sun Ho Kim	KAERI	Status of Lower Hybrid Fast Wave Research on VEST	Invited	8. MF1 (Core plasma)
28	Choongki Sung	KAIST	Gyrokinetic Validation Study Using KSTAR plasmas	Invited	8. MF1 (Core plasma)
29	Sumin Yi	Korea Institute of Fusion Energy	Two distinguished processes of zonal flow generation in tokamak plasmas	Invited	8. MF1 (Core plasma)
30	Jinseok Ko	Korea Institute of Fusion Energy	Prompt inference of safety and current-density profiles for tokamak advanced scenario research	Invited	8. MF1 (Core plasma)

31	Ilija Chavdarovski	Korea Institute of Fusion Energy	Linear excitation of low frequency Alfvén and acoustic eigenmodes without energetic particles	Invited	8. MF1 (Core plasma)
32	Minjun Choi	Korea Institute of Fusion Energy	Interaction between a magnetic island and turbulence in fusion plasmas	Invited	8. MF1 (Core plasma)
33	Sang-hee Hahn	Korea Institute of Fusion Energy (KFE)	Access to high plasma current regime in KSTAR	Invited	8. MF1 (Core plasma)
34	Jisung Kang	Korean Institute of Fusion Energy	Role of fast-ion confinement for high β_N steady-state operation in 2021 KSTAR campaign	Invited	8. MF1 (Core plasma)
35	Kimin Kim	Korean Institute of Fusion Energy	Observation of improved confinement by non-axisymmetric magnetic field driven rotation braking in KSTAR	Invited	8. MF1 (Core plasma)
36	Janghoon Seo	Korean Institute of Fusion Energy	Development of discontinuous Galerkin gyrokinetic code for whole tokamak geometry	Invited	8. MF1 (Core plasma)
37	Mitsuru Honda	Kyoto University	A deep-learning approach to analyze wave-number-space images of gyro-kinetic simulations for faster calculations	Invited	8. MF1 (Core plasma)
38	Jozef Ongena	Laboratory for Plasma Physics, Royal Military Academy, Brussels, Belgium	Recent advances in ICRF technology, theory and experiment in view of ITER and future fusion reactors	Invited	8. MF1 (Core plasma)
39	Hooman Hezaveh	Mathematical Sciences Institute	Frequency chirping of TAEs; Self-consistent simulations using the MEGA code	Invited	8. MF1 (Core plasma)
40	Zhixin Lu	Max Planck Institut für Plasmaphysik, Garching, Germany	An implicit full f particle method for studies of Alfvén waves and energetic particle physics	Invited	8. MF1 (Core plasma)
41	Sergey Bozhenkov	Max Planck Institute for Plasma Physics	Importance of turbulence of its control for plasma performance in the optimized stellarator Wendelstein 7-X	Invited	8. MF1 (Core plasma)
42	Vinodh Bandaru	MPG (IPP Garching)	Self-consistent interaction of Runaway Electrons and Magneto-hydrodynamic instabilities	Invited	8. MF1 (Core plasma)
43	Shinya Maeyama	Nagoya University	Exploring multi-scale turbulent interactions in high electron temperature burning plasma	Invited	8. MF1 (Core plasma)
44	Yutaka Fujiwara	National Institute for Fusion Science	Observation of the wave-particle interaction effects using a fast-ion charge exchange spectroscopy in a three-dimensional magnetic configuration device	Invited	8. MF1 (Core plasma)
45	Naoki Kenmochi	National Institute for Fusion Science	Isotope effects on formation and sustainment of electron internal transport barrier	Invited	8. MF1 (Core plasma)
46	Tokihiko Tokuzawa	National Institute for Fusion Science	Controlled turbulence excitation in LHD plasmas	Invited	8. MF1 (Core plasma)
47	Malik Iduakass	National Institute for Fusion Science	Precession drift reversal and strong redistribution of energetic particles during energetic-particle driven magnetohydrodynamics instability in a Large Helical Device plasma	Invited	8. MF1 (Core plasma)
48	Yasuhiro Suzuki	National Institute for Fusion Science	Improved particle confinement in the L-H transition in the 3D magnetic field	Invited	8. MF1 (Core plasma)
49	Naoki Tamura	National Institute for Fusion Science	Experimental Study Towards Taming Mixed Ion Species Plasmas in 3D Magnetic Field	Invited	8. MF1 (Core plasma)
50	Akinobu Matsuyama	National Institutes for Quantum and Radiological Science and Technology	Ablation and assimilation of massively injected cryogenic pellets into tokamak plasmas	Invited	8. MF1 (Core plasma)
51	Adelle Wright	Princeton Plasma Physics Laboratory	Predicting nonresonant pressure-driven MHD modes in equilibria with low magnetic shear	Invited	8. MF1 (Core plasma)
52	Chang Liu	Princeton Plasma Physics Laboratory	Kinetic-MHD simulation of nonlinear interaction between Alfvén instabilities and energetic particles	Invited	8. MF1 (Core plasma)
53	Yao Zhou	Princeton Plasma Physics Laboratory	Approach to nonlinear magnetohydrodynamic simulations in stellarator geometry	Invited	8. MF1 (Core plasma)
54	Walter Guttenfelder	Princeton Plasma Physics Laboratory	Progress in predicting transport in NSTX H-mode pedestals	Invited	8. MF1 (Core plasma)
55	Yi Zhang	School of Physics, Peking University, Beijing, China;	Curvature of Radial Electric Field Aggravates Edge Magnetohydrodynamics Mode in Toroidally Confined Plasmas	Invited	8. MF1 (Core plasma)

56	Lei Xue	Southwestern Institute of Physics	Scenarios integrated-analysis for standard single-null plasma of HL-2M	Invited	8. MF1 (Core plasma)
57	Yipo Zhang	Southwestern Institute of Physics	Suppression of runaway electron generation by LBO during disruptions in the HL-2A Tokamak	Invited	8. MF1 (Core plasma)
58	Ke Yao	Southwestern Institute of Physics	Observation of central high-k turbulence modulated by $m/n=2/1$ islands in HL-2A core plasmas	Invited	8. MF1 (Core plasma)
59	Yi Liu	Southwestern Institute of Physics	Edge Coherent Mode Providing Continuous Transport during ELM Mitigation with $n=1$ RMP in HL-2A H-mode plasma	Invited	8. MF1 (Core plasma)
60	Thawatchai Onjun	Thailand Institute of Nuclear Technology	Initiative of Fusion Science and Technology in Thailand: Progress, Perspective, and Partnership	Invited	8. MF1 (Core plasma)
61	Tatsuya Yokoyama	The University of Tokyo	Data-driven prediction and control of radiative collapse in stellarator-heliotron plasma	Invited	8. MF1 (Core plasma)
62	Yi Tan	Tsinghua University	Progress of the SUNIST/-2 spherical tokamaks	Invited	8. MF1 (Core plasma)
63	Hendrik Meyer	UKAEA	The UK STEP programme as viewed from the plasma	Invited	8. MF1 (Core plasma)
64	Lothar Schmitz	University of California Los Angeles	Reducing the L-H transition power threshold in ITER-Similar-Shape DIII-D hydrogen plasmas	Invited	8. MF1 (Core plasma)
65	Guillaume Brochard	University of California, Irvine	Verification and validation of gyrokinetic and kinetic-MHD simulations for internal kink instability in DIII-D tokamak	Invited	8. MF1 (Core plasma)
66	Xishuo Wei	University of California, Irvine	Massive GTC global simulations of internal kink instability in DIII-D experiments for development and training of surrogate GTC model (SGTC) based on deep learning methods	Invited	8. MF1 (Core plasma)
67	Wei Zhang	Zhejiang University	Fast Pressure Crash Associated with Double Tearing Modes in Tokamaks.	Invited	8. MF1 (Core plasma)
68	Valeria Ostuni	CEA Cadarache	Tokamak discharge simulation coupling free-boundary equilibrium and plasma model with application to JT-60SA	Invited	B->MF1
69	Liming Yu	Southwestern Institute of Physics	Low-frequency MHD Modes Driven by Energetic Electrons in HL-2A LHCD Plasmas	Invited	F->MF1
70	Jie Zhang	Southwestern Institute of Physics	Measurements and analyses of energetic electron bremsstrahlung during lower hybrid current drive in HL-2A tokamak	Invited	B->MF1
71	Alexander melnikov	Kurchatov Institute	Currents and electric fields in edge tokamak plasma	Invited	MF2->MF1