Poster presentation list (Sep. 25, 14:00~17:00)

P1: Positive Power-Law Scaling of Energy Confinement with Temperature in a High-Beta / Field-Reversed Mirror
Dr. Brendan Sporer (TAE Technologies)

P2: Stellarator Techniques to Optimize 3D Mirrors for Improved MHD Stability and Reduced Particle Drift
Mr. Djin Patch (UW Madison)

P3: Plasma and energy losses due to azimuthal fluctuations in the magnetic mirror
Mr. Mikhail Tiushev (University of Saskatchewan)

P4: Dynamics of thin plasma cord creation in a magnetic trap for beam-plasma generating a THz radiation flux
Prof. Andrey V. Arzhannikov (Budker Institute of Nuclear Physics)

P5: Development of a superconducting magnetic system for GDMT
Mr. Daniil Pilipenko (Budker Institute of Nuclear Physics (BINP SB RAS))

P6: A numerical model of a nonstationary plasma in an axially symmetric open trap MIDAS-1D2V
Dr. Vadim Vadimovich Prikhodko (Budker Institute of Nuclear Physics SB RAS)

P7: Diagnostics of plasma velocity and electron temperature in the helical open magnetic trap SMOLA
Ms. Anna Aleksandrovna Inzhevatkina (Budker Institute of Nuclear Physics)

P8: START OF THE INJECTION COMPLEX OF THE EXPERIMENTAL CAT INSTALLATION
Mr. Vyacheslav Valerevich Gamov (Budker Institute of Nuclear Physics (BINP SB RAS))

P9: Status of the CAT experiment
Mr. Konstantin Sergeevich Kolesnichenko (Budker Institute of Nuclear Physics)

P10: Drift-kinetic PIC simulations of longitudinal plasma losses in a mirror trap
Mr. Vladimir Vladimirovich Glinskiy (Budker Institute of Nuclear Physics (BINP SB RAS))

P11: Diamagnetic measurements at the CAT device
Mr. Kirill Fedorovich Zhimulev (Budker Institute of Nuclear Physics SB RAS, Novosibirsk, RF)

P12: Project of heterodyne detector at 300 GHz frequency and spectral properties of its main elements
Dr. Denis Samtsov (Budker Institute of Nuclear Physics (BINP SB RAS))

P13: Evidences of energy transfer from trapped ions to plasma oscillations in SMOLA helical mirror trap
Mr. Mikhail Sergeevich Tolkachev (Budker Institute of Nuclear Physics)

P14: Design of the Cryopumps for the TRT Injector
Dr. Aleksei Bragin (Budker Institute of Nuclear Physics)

P15: Thomson scattering measurements of plasma parameters evolution in the GOL-NB multiple-mirror trap
Mr. Evgeniy Nikolaevich Skuratov (BINP SB RAS)

P16: Diamagnetic bubble equilibrium in gas-dynamic multiple-mirror trap
Mr. Mikhail Sergeevich Khristo (Budker INP)

P17: Status of fusion reaction diagnostics at the GDT facility
Mr. Egor Pinzhenin (BINP)

P18: Model of plasma dynamics in a multiple-mirror trap with long-scale corrugation at an arbitrary Mach number
Mr. Evgenii Nikolaevich Sidorov (BINP SB RAS)

P19: Analysis of the influence of thermal loads on the size and shape of the GDML limiter
Mr. Vladimir Andreevich Popov (BINP SB RAS)

P20: Centrifugal and Electron temperature effects in Vortex Confinement regime
Mr. Sergey Konstantinov (Budker Institute of Nuclear Physics SB RAS)

P21: Mathematical modeling of plasma transport in a helical magnetic field
Ms. Irina Oksogoeva (RUDN University)

P22: Numerical modeling of dense plasma beam injection into a mirror machine along the axis
Dr. Ivan Sergeevich Chernoshtanov (Institute of Computational Mathematics and Mathematical Geophysics SB RAS)

P23: Fully kinetic modeling of plasma confinement in a mirror trap using a semi-implicit electromagnetic 3D PIC code
Dr. Evgenii Andreevich Berendeev (Novosibirsk State University)

P24: Kinetic theory of a transition layer in a diamagnetic bubble at a finite electron temperature
Mr. Vladislav Kurshakov (Novosibirsk State University, Budker Institute of Nuclear Physics)

P25: Laser-Induced Fluorescence Diagnosis of General Ion Motion and Velocity Distribution in a Magnetic X-point Configuration
Mr. Alvin Amry Sugianto (Korea Advanced Institute of Science and Technology (KAIST))

P26: Development of a SiPM-Based Filterscope System in the KAIMIR Device
Mr. Dongha Kim (KAIST (Korea Advanced Institute of Science and Technology))

P27: Experimental Investigation of Neutral Effects on a Tokamak Boundary Plasma Simulator Using the KAIMIR Device
Mr. Dong geun Oh (Korea Advanced Institute of Science and Technology)

P28: Developments of two interferometer systems for plasma density measurements in KAIMIR
Mr. Yeono Jung (Korea Advanced Institute of Science and Technology (KAIST))

P29: Design and Commissioning of a New Field-Reversed Configuration Device at KFE
Mr. Soo Ouk Jang (Korea Institute of Fusion Energy)

P30: A V-band mm-wave interferometer for the FRC device
Mr. KYU-DONG LEE (Korea Institute of Fusion Energy)

P31: Development of a THz interferometer system for Korea Superconducting Tokamak Advanced Research
Dr. DongJae Lee (KFE)

P32: Design of an electrostatic analyzer for detection of alpha particles produced in p-11B reaction experiments
Dr. Masanori Mizuguchi (LINEA innovations, Inc.)

P33: Development of Compact Toroid Injection System for the GAMMA 10/PDX Device
Dr. Taichi Seki (LINEA Innovations, Inc.)

P34: Impact of plasma flow on ion temperature measurement using retarding field analyzers
Mr. Shigetaka Kagaya (Tohoku univ.)

P35: Inferring electron density based on hydrogen Balmer line ratio under radiation trapping condition
Dr. Hiroyuki Takahashi (Tohoku University)

P36: He I line intensity ratio method considering spatially non-uniform radiation trapping effect
Mr. Shogo Otsuka (Tohoku University)

P37: Particle balance analysis of hydrogen molecular activated recombining plasma in DT-ALPHA
Mr. Keigo Yoshimura (Department of Quantum Science and Energy Engineering, Tohoku University)

P38: Three-dimensional propagation of linear low-frequency waves in FRC equilibrium
Mr. ZHANG SIYU (Gunma University)

P39: Numerical simulation of pyroelectric fusion with introduction of open magnetic field
Mr. Shun Inoue (GunmaUniversity)

P40: Numerical study of neutral beam injection during the startup phase of a D-3He/FRC Fusion Reactor
Mr. Kanato Yuri (Gunma University)

P41: Numerical analysis of the capture of beam ions accelerated by cyclotron auto-resonance acceleration (CARA) in field-reversed configuration plasmas
Mr. Toru Takahashi (Graduate School of Science and Technology, Gunma University)

P42: Investigation of kinetic equilibrium of field-reversed configuration plasmas using a hybrid simulation model
Mr. Shuhei Saito (Graduate School of Science and Technology, Gunma University)

P43: Divertor plasma response to transient heat pulses under low neutral pressure conditions in GAMMA10/PDX
Dr. Yuki Hayashi (The University of Tokyo)

P44: Resolving Fast Electron Flux with a Target Probe System on TST-2
Mr. Yiming Tian (The University of Tokyo)

P45: Development of High-Speed LTS Diagnostic system for Nonequilibrium Merging FRC Plasmas
Dr. Ryunosuke Kikuchi (Nihon University)

P46: Technical Evaluation of Fusion Reactors for Lunar Installation
Ms. Himeka Suzuki (Nihon University)

P47: Dependence of FRC Formation on Mirror Magnetic Field Strength Using Full 2D Equilibrium Analysis
Ms. Satsuki Ishiwata (Nihon University)

P48: Simulation of Linear Detached Hydrogen Plasmas Using a Multi-Temperature Fluid Model
Dr. Hiroki Natsume (Tokai University)

P49: Investigation of Leg Length Dependence in Simulated Divertor Plasmas Using TPDsheet-ICR
Dr. Naonori Okada (Tokai University)

P50: Verification of plasma instability suppression using a thermionic emission electrode in a linear plasma device
Mr. Shoma Hirata (Nagoya University)

P51: Effects of metastable atom transport in detached helium plasma elucidated by the integrated transport code DISCOVER
Mr. Ryoji Mano (Graduate School of Engineering, Nagoya University)

P52: A new power generation method in a simple mirror plasma
Prof. Hiromasa Takeno (Kobe University)

P53: Influence on plasma flow using rotating magnetic field plasma acceleration in a miniature RF plasma thruster
Dr. Takeru Furukawa (Kobe University)

P54: A basic study of grid-less electrode application to traveling wave direct energy converter
Mr. Kimiyasu Kannaka (Kobe University)

P55: Plasma fluid simulation using a pseudo-potential for evaluating RF plugging effects
Ms. Wooran FUMIKAWA (Kyushu University)

P56: The electrode biasing system in Pilot GAMMA PDX-SC
Dr. Tomoharu Numakura (University of Tsukuba)

P57: Development of the Electron Cyclotron Heating System for High-Density Plasmas in the Pilot GAMMA PDX-SC
Dr. Ryutaro Minami (Plasma Research Center, University of Tsukuba)

P58: First Installation of ICRF Heating System in Pilot GAMMA PDX-SC
Dr. Mafumi Hirata (Plasma Research Center, University of Tsukuba)

P59: Effect of infrared heating for improving the heating on LaB6 hot cathode surface temperature and plasma profile in the DC arc plasma source of Pilot GAMMA PDX-SC
Mr. Taisei Matsuo (Plasma Research Center, University of Tsukuba)

P60: Modeling of kinetic effects on ion parallel conductive heat flux in SOL plasma using particle simulation
Mr. Hayase Maruyama (Plasma Research Center, University of Tsukuba)

P61: Initial Measurements of a Diamagnetic Loop in Pilot GAMMA PDX-SC
Mr. Daisuke Horio (Plasma Research Center)

P62: High-Density and Large-Diameter Hydrogen Plasma Generation by Hybrid Discharge Method
Mr. Yuta Kinashi (Plasma Research Center, University of Tsukuba)

P63: Initial Application of Plasma Simulation in the End-cell of GAMMA 10/PDX Using the EMC3-EIRENE Code
Mr. Satoshi TAKAHASHI (Plasma Research Center, University of Tsukuba)

P64: Separation of He-W Co-deposited Layers on NaCl Substrate with Evaluation of Structural Properties and Deuterium Retention
Mr. Aoi Kataniwa (Plasma Research Center, University of Tsukuba)

P65: Effect of Magnetic Field in the Antenna Region on RF Plasma Generation in the Superconducting Mirror Device Pilot GAMMA PDX-SC
Mr. Takumi Seto (Plasma Research Center, University of Tsukuba)

P66: The relationship between D-Ar plasma exposure conditions, W-D co-deposited structural properties, and D absorption properties
Mr. Takuto Okugi (Plasma Research Center, University of Tsukuba)

P67: Preparation of deuterium-tungsten co-deposited layer suitable for STEM-EELS analysis
Mr. Kota Saito (Plasma Research Center, University of Tsukuba)

P68: Initial Results of Double Probe Measurements in the Open Magnetic Field End Chamber of the Pilot GAMMA PDX-SC
Mr. Asuma Ogura (Plasma Research Center, University of Tsukuba)

P69: Initial results of near infrared emission spectrum measurement in the GAMMA 10/PDX divertor simulation plasmas
Mr. Kento Matsunaga (University of Tsukuba)

P70: Effect of DC+RF combined biasing on surface structural changes of tungsten induced by pure helium plasma irradiation
Mr. Yukiya Numata (Plasma Research Center, University of Tsukuba)

P71: Estimation of Ion Temperature from Ion Particle Flux into the Probe Electrode Using Plasma Particle Simulations
Mr. Daiki Yokoyama (Plasma Research Center, University of Tsukuba)

P72: Investigation of cross-field transport in detached plasma using a multi-pin probe in GAMMA 10/PDX divertor simulated plasma
Mr. Hiroki Senboku (Plasma Research Center, University of Tsukuba)

P73: Time-dependent fluid simulation of the dynamic response of detached plasma to transient heat and particle flux at GAMMA 10/PDX
Mr. Akihiro Kunii (Plasma Research Center, University of Tsukuba)

P74: Effect of End Plate Potential on Hot Cathode Arc Discharge Hydrogen Plasma in Pilot GAMMA PDX-SC
Mr. Reina Miyauchi (Plasma Research Center, University of Tsukuba)

P75: Investigation of kHz range fluctuations in Balmer emissions during detached plasma operation in GAMMA 10/PDX
Mr. Chiharu Masuya (Plasma Research Center, University of Tsukuba)

P76: Effective Excitation of an Alfven Slow Wave as the Difference-Frequency Wave between Two Fast Waves in the GAMMA 10/PDX Central Cell
Mr. Hiro Bhattarai (Plasma Research Center, University of Tsukuba)

P77: Validation of a method for evaluating electron temperature using hydrogen molecular emissions in the GAMMA 10/PDX and PGX-SC divertor simulated plasmas
Mr. Riku KOMAMI (University of Tsukuba)

P78: Development of B-dot Probe and Wave Characteristic Evaluation of RF-Plasma in Pilot GAMMA PDX-SC
Ms. Mizuki Ono (University of Tsukuba (Plasma Research Center))

P79: Applying Machine Learning to Spectral Data of the Central Cell of the Tandem Mirror GAMMA10/PDX

Ms. Yui Nagano (Plasma Research Center, University of Tsukuba)

P80: Effect of controlling the termination plate potential on mode transitions in RF plasmas of APSEDAS
Ms. Hana Kida (Plasma Research Center, University of Tsukuba)

P81: I-V Characteristics of Ion Sensitive Probes during plasma discharge with ECH and ICRF heating in Pilot GAMMA PDX-SC
Ms. Haruka Ichikawa (University of Tsukuba)

P82: Deuterium retention in He-W co-deposited layers: analysis of temperature effects
Ms. Maria Sakamoto (Plasma Research Center, University of Tsukuba)