

## TABLE OF CONTENTS

### **Overview Articles (Invited Presentation)**

Progress of Full- $f$ Gyrokinetic Simulation Toward Reactor Relevant Numerical Experiments	3503028
	Yasuhiro IDOMURA, Motoki NAKATA and Sébastien JOLLIET

### **Regular Articles (Invited Presentation)**

Integration of Large-Scale Simulations and Numerical Modelling Tools in Close Link with the LHD Experiment.....	3402017
Masayuki YOKOYAMA, Ryosuke SEKI, Chihiro SUZUKI, Masahiko EMOTO, Katsumi IDA,	
Masaki OSAKABE, Sadayoshi MURAKAMI, Yasuhiro SUZUKI, Shinsuke SATAKE,	
Masanori NUNAMI, Atsushi FUKUYAMA, Hiroshi YAMADA,	
Numerical Simulation Research Project and LHD Experiment Group	
Large-Scale Simulation of Energetic Particle Driven Magnetohydrodynamic Instabilities in ITER Plasmas.....	3403068
Yasushi TODO and Andreas BIERWAGE	
Divertor Study on DEMO Reactor .....	3403070
Kazuo HOSHINO, Nobuyuki ASAKURA, Katsuhiro SHIMIZU, Shinsuke TOKUNAGA,	
Tomonori TAKIZUKA, Youji SOMEYA, Makoto NAKAMURA, Hiroyasu UTOH,	
Yoshiteru SAKAMOTO and Kenji TOBITA	

### **Regular Articles (Oral and Poster Presentation)**

1. The Leading Edge of Large-scale Numerical Simulation	3401019
Spectrum of Passive Scalar at Very High Schmidt Number in Turbulence .....	3401061
Toshiyuki GOTOH, Takeshi WATANABE and Hideaki MIURA	
Speed-Up Technique of Extended Boundary Node Method for Large-Scale Simulation .....	3401067
Ayumu SAITO, Atsushi KAMITANI and Hiroaki NAKAMURA	
Molecular Dynamics Simulation of Micellar Shape Transition in Amphiphilic Solutions .....	3401072
Susumu FUJIWARA, Masato HASHIMOTO, Yuichi TAMURA, Hiroaki NAKAMURA and	
Ritoku HORIUCHI	
2-D Particle-In-Cell Simulations of the Coalescence of Sixteen Current Filaments in Plasmas .....	3401074
Kazuki IWATA, Takayuki HARUKI and Masahiro SATO	
Transmission Efficiency in Complex-Shaped Waveguide using Real Metals .....	3401088
Yoshihisa FUJITA, Soichiro IKUNO and Hiroaki NAKAMURA	
Meshless Time-Domain Method with Modified RPIM-Based Shape Functions for Electromagnetic Wave	3401129
Propagation Simulation in Complex Shaped Domain .....	
Taku ITOH, Soichiro IKUNO and Hiroaki NAKAMURA	
Numerical Simulation of Contactless Methods for Measuring $j_c$ in High-Temperature Superconducting Film:	3401144
Influence of Defect on Resolution and Accuracy .....	
Teruou TAKAYAMA, Atsushi KAMITANI, Soichiro IKUNO and Hiroaki NAKAMURA	
Faster Generation of Shape Functions in Meshless Time Domain Method .....	3403077
Yoshiharu OH, Yoshihisa FUJITA, Taku ITOH, Hiroaki NAKAMURA and Soichiro IKUNO	
Long-Term Landau-Fluid Simulation of Alfvén Eigenmode Instabilities .....	3403124
Donald A. SPONG	
Integrated Heat Transport Simulation of Multi-Ion-Species Plasma in LHD .....	3405085
Akira SAKAI, Sadayoshi MURAKAMI, Hiroyuki YAMAGUCHI, Arimitsu WAKASA and	
Atsushi FUKUYAMA	
Numerical Investigations on Crack Identification in High-Temperature Superconducting Film .....	3405085
Atsushi KAMITANI, Teruou TAKAYAMA, Soichiro IKUNO and Hiroaki NAKAMURA	

Study on In-Situ Calibration for Neutron Monitor in the Helical Type Fusion Experimental Device Based on Monte Carlo Calculations.....	Physics and Control of External Kink Instabilities with Realistic 3D Boundaries: a Challenge for Modern Experiments and Modeling.....
Yuji NAKANO, Atsushi YAMAZAKI, Kenichi WATANABE, Akira URITANI, Kunihiro OGAWA and Mitsutaka ISOBE	Tommaso BOLZONELLA, Matteo BARUZZO, Yueqiang LIU, Giuseppe MARCHIORI, Go MATSUNAGA, Leonardo PIGATTO, Anton SOPPELSA, Manabu TAKECHI and Fabio VILLONE
	3405141 3402081
<b>2. Magnetically-Confining Fusion Plasmas</b>	
Digital Correlation ECE Measurement Technique with a Gigahertz Sampling Digitizer.....	Role of the Electron Temperature in the Current Decay during Disruption in JT-60U .....
Hayato TSUCHIYA, Sigeru INAGAKI, Tokihiko TOKUZAWA, Naoki TAMURA and Yoshio NAGAYAMA	Yoshihide SHIBATA, Akihiko ISAYAMA, Go MATSUNAGA, Yasunori KAWANO, Seiji MIYAMOTO, Victor LUKASH, Rustam KHAYRUTDINOV and JT-60 team
	3402084
Comprehensive Analysis on the Role of Helical Movement of the Magnetic Axis in Stellarators .....	Plasma Spectral Measurements in the D-Module of the GAMMA 10/PDX End-Cell.....
Shoichi OKAMURA	Yasunari HOSODA, Yousuke NAKASHIMA, Yohei IIDA, Katsuhiro HOSOI, Kazuya ICHIMURA, Hisato TAKEDA, Satoru KIGURE, Shigehito TAKAHASHI, Miki IWAMOTO, Keita SHIMIZU, Yoshiaki SHOU, Takanobu NAGAYA, Masashi YOSIKAWA, Kensuke OKI, Mizuki SAKAMOTO, Yu NAGATUKA, Motoki YOSHIKAWA, Ryo NOHARA and Makoto ICHIMURA
	3402087
Experimental Results of Ion Heating by Magnetic Reconnection Using External Coils .....	Analytical Solution of High $\beta_p$ Equilibria with Natural Inboard Poloidal Null Configuration Obtained in the Spherical Tokamak QUEST.....
Shuji KAMIO, Takenori G WATANABE, Kotaro YAMASAKI, Qinghong CAO, Takuma YAMADA, Michiaki INOMOTO and Yasushi ONO	Kishore MISHRA, Hideki ZUSHI, Hiroshi IDEI, Saya TASHIMA, Santanu BANERJEE, Makoto HASEGAWA, Kazuaki HANADA, Kazuo NAKAMURA, Akihiko FUJISAWA, Yoshihiko NAGASHIMA, Keisuke MATSUOKA, Arseny KUZMIN, Takumi ONCHI and QUEST Team
	3402093
Identification of Waves by RF Magnetic Probes during Lower Hybrid Wave Injection Experiments on the TST-2 Spherical Tokamak.....	Fast-Ion Losses due to Externally Applied Static Magnetic Perturbations in the Large Helical Device.....
Takahiro SHINYA, Akira EJIRI, Yuichi TAKASE, Takuma WAKATSUKI, Takuya OOSAKO, Naoto TSUJI, Hidetoshi KAKUDA, Hirokazu FURUI, Junichi HIRATSUKA, Takuma INADA, Kazuhiro IMAMURA, Keishun NAKAMURA, Ayaka NAKANISHI, Masateru SONEHARA, Hiro TOGASHI, Shintaro TSUDA, Takashi YAMAGUCHI, Hiroshi KASAHIARA, Kenji SAITO, Tetsuo SEKI, Fujio SHIMPO, Yoshihiko NAGASHIMA, Osamu WATANABE and Takuma YAMADA	Kunihiro OGAWA, Mitsutaka ISOBE, Kazuo TOI, Akihiro SHIMIZU, Masaki OSAKABE and LHD Experiment Group
	3402097
Electron Density Reconstruction and Optimum Beam Arrangement of Far-Infrared Interferometer in Heliotron J.....	Generation and Control of High Intermittent Heat Load Pattern for Divertor Simulation Studies in GAMMA 10 Tandem Mirror.....
Nan SHI, Shinsuke OHSHIMA, Kenji TANAKA, Takashi MINAMI, Kazunobu NAGASAKI, Satoshi YAMAMOTO, Yoshiaki OHTANI, Linge ZANG, Tohru MIZUUCHI, Hiroyuki OKADA, Shinichiro KADO, Shinji KOBAYASHI, Shigeru KONOSHIMA, Naoki KENMOCHI and Fumimichi SANO	Ryutaro MINAMI, Tsuyoshi IMAI, Tsuyoshi KARIYA, Tomoharu NUMAKURA, Taku EGUCHI, Ryo KAWARASAKI, Kazuhiro NAKAZAWA, Takaki KATO, Fumiya SATO, Hirotaka NANZAI, Makoto UEHARA, Yoichi ENDO, Mafumi HIRATA, Makoto ICHIMURA, Ryuya IKEZOE, Isao KATANUMA, Junko KOHAGURA, Yousuke NAKASHIMA, Kensuke OKI, Mizuki SAKAMOTO, Masayuki YOSHIKAWA and GAMMA 10 Group
	3402116
Direct Measurement of Ion Temperature and Poloidal Rotation Velocity with Doppler Spectroscopy during Bifurcation in Tohoku University Heliac.....	Measurement of Heat Flux with Calorimeters in the D-Module of GAMMA 10/PDX.....
Toshihiro OKU, Sumio KITAJIMA, Keiichi ISHII, Yu SATO, Jo TACHIBANA, Satoshi KOIKE, Kosuke SHIMIZU, Atsushi OKAMOTO, Hiromi TAKAHASHI, Masakazu TAKAYAMA and Shigeru INAGAKI	Miki IWAMOTO, Yousuke NAKASHIMA, Hiroto MATSUURA, Hisato TAKEDA, Katsuhiro HOSOI, Kazuya ICHIMURA, Satoru KIGURE, Shigehito TAKAHASHI, Yasunari HOSODA, Kensuke OKI, Yu NAGATSUKA, Motoki YOSHIKAWA, Ryo NOHARA, Mizuki SAKAMOTO, Tsuyoshi IMAI and Makoto ICHIMURA
	3402121
Optimization of Tokamak Plasma Equilibrium Control in TOKASTAR-2 .....	Microwave Reflection from the Region of Electron Cyclotron Resonance Heating in the L-2M Stellarator .....
Reiya NISHIMURA, Hideki ARIMOTO, Takaaki FUJITA, Tomohiro UEDA, Tatsuya SAKITO and Kozo YAMAZAKI	German M. BATANOV, Valentin D. BORZOSEKOV, Nikolay K. KHARCHEV, Leonid V. KOLIK, Eugeny M. KONCHEKOV, Dmitriy V. MALAKHOV, Alexander E. PETROV, Karen A. SARKSYAN, Alexander S. SAKHAROV, Nina N. SKVORTSOVA and Vladimir D. STEPACHIN
	3402128
Coulomb Collisional Effects on High Energy Particles in the Presence of Driftwave Turbulence .....	Relative Dispersion of Trapped Ion Granulations in Sheared Flows.....
Botsz HUANG, Yasutaro NISHIMURA and Chio-Zong CHENG	Yusuke KOSUGA, Sanae -I. ITOH, Patrick H. DIAMOND, Kimitaka ITOH and Maxime LESUR
	3403018
Evaluation of Fusion Reactivity Enhancement due to Nuclear Plus Interference Scattering in $^3\text{He}$ -Containing Deuterium Plasmas .....	JINTRAC: A System of Codes for Integrated Simulation of Tokamak Scenarios .....
Hideaki MATSUURA, Daisuke UCHIYAMA and Shota SUGIYAMA	Michele ROMANELLI, Gerard CORRIGAN, Vassili PARAIL, Sven WIESEN, Roberto AMBROSINO, Paula DA SILVA ARESTA BELO, Luca GARZOTTI, Derek HARTING, Florian KÖCHL, Tuomas KOSKELA, Laura LAURO-TARONI, Chiara MARCETTO, Massimiliano MATTEI, Elina MILITELLO-ASP, Maria Filomena Ferreira NAVÉ, Stanislas PAMELA, Antti SALMI, Pär STRAND, Gabor SZEPESI and EFDA-JET Contributors
	3403023
Measured and Modeled Radiation Profiles for LHD Plasma - A Comparison during Plasma Detachment .....	On Kinetic Resistive Wall Mode Theory with Sheared Rotation .....
Shwetang N. PANDYA, Byron J. PETERSON, Masahiro KOBAYASHI, Kiyofumi MUKAI, Ryuichi SANO, Hirohiko TANAKA, Suguru MASUZAKI and LHD Experiment Group	Junya SHIRAISHI, Naoaki MIYATO and Go MATSUNAGA
	3403027
Development of a Local Current Diagnostic using a Small Rogowski Coil for a Spherical Tokamak Plasma in TST-2 .....	Simulation Study on Nonlocal Transport for Peripheral Density Source .....
Hirokazu FURUI, Yoshihiko NAGASHIMA, Yuich TAKASE, Akira EJIRI, Hidetoshi KAKUDA, Masateru SONEHARA, Takuya OOSAKO, Naoto TSUJI, Junichi HIRATSUKA, Kazuhiro IMAMURA, Takuma INADA, Keishun NAKAMURA, Ayaka NAKANISHI, Takahiro SHINYA, Hiro TOGASHI, Shintaro TSUDA, Takuma WAKATSUKI and Takashi YAMAGUCHI	Masatoshi YAGI, Naoaki MIYATO, Akinobu MATSUYAMA and Tomonori TAKIZUKA
	3403030

Simulation of Sawtooth Oscillation in Burning Plasma	Effect of Heat Cycling on Microstructure and Thermal Property of Boron Carbide Sintered Bulk as a Shielding Material for Fusion Blanket	
Hiroki NATSUME, Takaaki FUJITA, Hideki ARIMOTO and Kozo YAMAZAKI	Yoshimitsu HISHINUMA, Megumi AKOSHIMA, Yuichiro YAMASHITA, Teruya TANAKA, Akio SAGARA and Takeo MUROGA	3405069
Effect of Density Control and Impurity Transport on Internal Transport Barrier Formation in Tokamak Plasma	Bridge-Type Mechanical Lap Joint of a 100 kA-Class HTS Conductor having Stacks of GdBCO Tapes	
Tomoyuki YAMAKAMI, Takaaki FUJITA, Hideki ARIMOTO and Kozo YAMAZAKI	Satoshi ITO, Yutaro SEINO, Nagato YANAGI, Yoshiro TERAZAKI, Akio SAGARA and Hidetoshi HASHIZUME	3405086
Effect of Impurity Ions on NBI Heating in LHD Plasmas	Modeling of Butt Joint Composed of Nb <sub>3</sub> Sn Cable-In-Conduit Conductors	
Hiroyuki YAMAGUCHI and Sadayoshi MURAKAMI	Tetsuhiro OBANA, Kazuya TAKAHATA, Shinji HAMAGUCHI, Kyohei NATSUME, Shinsaku IMAGAWA, Toshiyuki MITO, Kaname KIZU, Haruyuki MURAKAMI and Kiyoshi YOSHIDA	3405122
MHD Simulations of Pellet Injection in the LHD	Tritium Retention on the Surface of Stainless Steel Samples Fixed on the Plasma-Facing Wall in LHD	
Ryuichi ISHIZAKI and Noriyoshi NAKAJIMA	Masao MATSUYAMA, Shinsuke ABE, Kiyohiko NISHIMURA, Naoko ASHIKAWA, Yasuhisa OYA, Kenji OKUNO, Yuji YAMAUCHI, Yuji NOBUTA and Akio SAGARA	3405135
Simulation Analysis of Dust-Particle Transport in the Peripheral Plasma in the Large Helical Device	Current Activities in the Interactive Joint Research at Tohoku University - Advanced Evaluation of Radiation Effects on Fusion Materials	
Mamoru SHOJI, Yasunori TANAKA, Alexander Yu. PIGAROV, Roman D. SMIRNOV, Suguru MASUZAKI, Gakushi KAWAMURA, Yoshihiko UESUGI, Hiroshi YAMADA and the LHD Experiment Group	Hiroaki KURISHITA, Masahiko HATAKEYAMA, Minoru NARUI, Satoru MATSUO, Tatsuo SHIKAMA, Kohei TADA, Noriyasu OHNO, Takao TAKEUCHI, Yuji HATANO, Masaki NISHIURA, Yousuke NAKASHIMA, Hideo WATANABE, Kazutoshi TOKUNAGA, Tomoaki HINO, Yoshio UEDA, Takeo MUROGA, Akio SAGARA and Osamu KANEKO	3405136
Three-Dimensional Numerical Analysis of Pressure Driven Mode in RMP-Imposed LHD Plasma	Quantitative Evaluation of Fatigue Impact on CS and TF Coils in Pulsed Tokamak Power Plant	
Katsuji ICHIGUCHI, Yasuhiro SUZUKI, Masahiko SATO, Yasushi TODO, Satoru SAKAKIBARA, Satoshi OHDACHI and Yoshiro NARUSHIMA	Toshihiro HAMADA, Kunihiko OKANO and Ryoji HIWATARI	3405138
Two-Fluid Equilibrium Considerations of $T_e/T_i \gg 1$ , Collisionless ST Plasmas Sustained by RF Electron Heating	Improvement of Evaluation of Replacement Cost of a Fusion Power Plant	
Yueng-Kay Martin PENG, Akio ISHIDA, Yuichi TAKASE, Akira EJIRI, Naoto TSUJII, Takashi MAEKAWA, Masaki UCHIDA, Hideki ZUSHI, Kazuaki HANADA and Makoto HASEGAWA	Takuya GOTO, Hiroyasu UTOH, Youji SOMEYA, Makoto NAKAMURA, Ryoji HIWATARI and Kenji TOBITA	3405140
The First Experiment of MPD Jet Injection into GAMMA 10 Plasma		
Kazuya ICHIMURA, Yousuke NAKASHIMA, Hisato TAKEDA, Katsuhiro HOSOI, Satoru KIGURE, Shigehito TAKAHASHI, Miki IWAMOTO, Yasunari HOSODA, Mafumi HIRATA, Ryuya IKEZOE, Kensuke OKI, Masayuki YOSHIKAWA, Mizuki SAKAMOTO, Tsuyoshi IMAI and Makoto ICHIMURA		
<b>3. Inertially-Confining Fusion Plasmas</b>	<b>5. Space and Astrophysical Plasmas</b>	
Implosion Simulation by Hydro Code Coupled with Laser Absorption using New Raytrace Algorithm	Statistics of Clusters of Ionized Regions in the Simulation of Discharge using a Percolation Model	
Takumi YANAGAWA, Hitoshi SAKAGAMI, Atsushi SUNAHARA and Hideo NAGATOMO	Akira SASAKI and Susumu KATO	3401120
<b>4. Fusion Engineering and Fusion Reactor Concepts</b>	A Numerical Framework for Operational Solar Wind Prediction	
First-Principles Study on Migration of Vacancy in Tungsten	Ljubomir NIKOLIĆ, Larisa TRICHTCHENKO and David BOTELER	3406099
Yasuhiro ODA, Atsushi M. ITO, Arimichi TAKAYAMA and Hiroaki NAKAMURA		
Study of Plasma Equilibrium Control for JT-60SA using MECS	<b>6. Basic Plasma Research and Plasma Applications</b>	
Yoshiaki MIYATA, Takahiro SUZUKI, Shunsuke IDE and Hajime URANO	Parametric Studies of Ultrarelativistic Electron Acceleration by an Oblique Shock Wave	
	Mieko TOIDA and Junya INAGAKI	3401026
LHD-Type Magnetic Configuration with Large Blanket Space	Numerical Analysis of Quantum-Mechanical Non-Uniform $E \times B$ Drift	
Tsuguhiro WATANABE, Nagato YANAGI and Akio SAGARA	Shun-ichi OIKAWA, Wataru KOSAKA and Poh Kam CHAN	3401033
Development of a Real-Time Power/Polarization Monitor using FPGA for Electron Cyclotron Resonance Heating on LHD	Simulation Studies of Shock Formation due to Interactions of Two Plasmas in a Magnetic Field and Modified Two-Stream Instabilities	
Ryohei MAKINO, Shin KUBO, Kenya KOBAYAHI, Sakaji KOBAYASHI, Takashi SHIMOZUMA, Yasuo YOSHIMURA, Hiroe IGAMI, Hiromi TAKAHASHI, Shinya OGASAWARA and Takashi MUTOH	Tatsunori Uragami and Mieko TOIDA	3401035
Development of an Indirectly Cooled Superconductor for the LHD Fusion Reactor FFHR	Viscosity Effects on Explosive Growth Dynamics of the Nonlinear Resistive Tearing Mode	
Kazuya TAKAHATA, Hitoshi TAMURA, Toshiyuki MITO, Shinsaku IMAGAWA and Akio SAGARA	Ahmad ALI, Jiquan LI and Yasuaki KISHIMOTO	3401036
First Wall Particle Flux Measurements by an F82H Permeation Probe in QUEST	Electron Energy Distribution in a Divertor Simulating Device with an RF Source	
Haishan ZHOU, Yoshi HIROOKA, Hideki ZUSHI, Arseniy KUZMIN and the QUEST group	Hiroyuki TAKAHASHI, Atsushi OKAMOTO, Takahiro KUMAGAI, Akira DAIBO, Takuya TAKAHASHI, Shimpei TSUBOTA and Sumio KITAJIMA	3401065
Progress of Preparation for ITER Divertor Thermocouple in JADA	Compensating Behavior and Constancy of Normalized Energy Transfers in Hall Magnetohydrodynamic Turbulence	
Sin-iti KITAZAWA, Tsuyoshi YAMAMOTO, Yasunori KAWANO and Kiyoshi ITAMI	Keisuke ARAKI and Hideaki MIURA	3401073
Theoretical and Experimental Analysis of Nb <sub>3</sub> Sn Strand Buckling in Large Scale CIC Conductor	Charge Transfer Cross Sections of Slow Multiply Charged Neon Ions in Collisions with Noble Gas Atoms	
Hidetoshi KUDO, Tsuyoshi YAGAI, Kei HAMANO, Kazuki YOSHIDA, Shinji HAMAGUCHI, Kyohei NATSUME and Tetsuhiro OBANA	Toshio KUSAKABE and Toshizo SHIRAI	3401119

Surface Waves in Oversized G-Band Slow-Wave Structures with Rectangular Corrugations .....	Kazuo OGURA, Akihiko KOJIMA, Fumiaki KAWABE, Kiyoyuki YAMBE and Md. Ruhul AMIN	3406022
Development of Direct Thrust Measurement System for the Completely Electrodeless Helicon Plasma Thruster....	Daisuke KUWAHARA, Yushi KOYAMA, Shuhei OTSUKA, Takamichi ISHII, Hiroki ISHII, Hiroaki FUJITSUKA, Shimpei WASEDA and Shunjiro SHINOHARA	3406025
Experimental Study on G-Band Oversized Backward Wave Oscillator Driven by Weakly Relativistic Electron Beam.....	Shota MAGORI, Kazuo OGURA, Takayuki IWASAKI, Junpei KOJIMA, Kiyoyuki YAMBE, Shin KUBO, Takashi SHIMOZUMA, Sakuji KOBAYASHI and Kohji OKADA	3406032
Generation and Acceleration of High-Density Helicon Plasma Using Permanent Magnets for the Completely Electrodeless Propulsion System.....	Shuhei OTSUKA, Toshiki NAKAGAWA, Hiroki ISHII, Naoto TESHIGAHARA, Hiroaki FUJITSUKA, Shimpei WASEDA, Takamichi ISHII, Daisuke KUWAHARA and Shunjiro SHINOHARA	3406047
Development of 2D Laser-Induced Fluorescence (LIF) System in High-Density Helicon Plasma .....	Naoto TESHIGAHARA, Shunjiro SHINOHARA, Yukihiko YAMAGATA, Daisuke KUWAHARA and Masaki WATANABE	3406055
Optical Measurements of High-Density Helicon Plasma by Using a High-Speed Camera and Monochromators .....	Shimpei WASEDA, Hiroaki FUJITSUKA, Shunjiro SHINOHARA, Daisuke KUWAHARA, Marie SAKATA and Hiroshi AKATSUKA	3406125

## 7. Imaging Science

Development of In-Situ Visualization Tool for PIC Simulation.....	Nobuaki Ohno and Hiroaki OHTANI	3401071
TOKI Compression for Plasma Particle Simulations.....	Katsumi HAGITA, Hiroaki OHTANI, Tsunehiko KATO and Seiji ISHIGURO	3401083
Improvement of Infrared Imaging Video Bolometer Systems in LHD.....	Kiyofumi MUKAI, Byron J. PETERSON, Shwetang N. PANDYA, Ryuichi SANO and Muneji ITOMI	3402037
Development of Microwave Imaging Diagnostics on the HL-2A Tokamak.....	Zhongbing SHI, Min JIANG, Shao CHE, Neville C. LUHMANN, Jr., Calvin DOMIER, Bin WANG, Yong YIN, Hongjuan SUN, Zhetian LIU, Xing HU, Alex SPEAR, Jin LI, Wulu ZHONG, Wei CHEN, Youlong CHE, Bingzhong FU, Zhengying CUI, Ping SUN, Yi LIU, Xuantong DING, Qingwei YANG and Xuru DUAN	3402123
Indoor Localization for an Augmented Reality-Aided Operation and Maintenance System based on Sensor Data Integration.....	Tomohiro UMETANI, Susumu YAMANE and Yuichi TAMURA	3406054
Improvement on Infrared Imaging Video Bolometer by Laser Calibration Method .....	Muneji ITOMI, Byron J. PETERSON, Yuji YAMAUCHI, Ryuichi SANO, Kiyofumi MUKAI and Shwetang N. PANDYA	3406080