

Plenary Talk and Invited Talk

PT

Chinese Fusion Research and ITER Project

Yuping Huo

I-01

ITER: Opportunity of Burning Plasma and Fusion Technology Studies

Yasuo Shimomura, ITER International Team and Participant Teams, ITER International Team

I-02

JET and the Physics Basis of ITER

Martin Keilhacker

I-03

Results and Future Plan of JT-60U towards Steady-state Tokamak Reactor

Shinji Sakurai and the JT-60 Team

I-04

Recent Results from the Alcator C-Mod Tokamak and Future Plans

Miklos Porkolab

I-05

Towards Integrated Steady State Advance Scenarios at ASDEX-U

O. Gruber

I-06

Advanced Tokamak Physics

R.D. Stambaugh

I-07

Present Prospect of LHD Experiment in Japanese Fusion Program

O. Motojima

I-08

Achievements of the Wendelstein-Stellarator Line

F. Wagner

I-09

Toroidal Magnetic Plasma Confinement at the Limit: Results from the National Spherical Torus Experiment

M.G. Bell for the NSTX Team

I-10

State of the Art and Prospects of Fusion Research in Russia

V.P. Smirnov

I-11**Key Issues for Steady-State Operation of Tokamak Reactors**

D.J. Campbell

I-12**Progress Soward Steady State Operation in Tore Supra**

Jean Jacquiot

I-13**The Present Status and Progress of the HT-7U Tokamak**

HT-7U team, presented by P.D. WENG

I-14**Theory and Experiment of Electron Cyclotron Current Drive on DIII-D**

Vincent Chan for the DIII-D Team

I-15**Plasma Flows within the Context of Biasing Experiments**

M. Tendler

I-16**Nonlinear Drift Wave-Zonal Flow Dynamics in Tokamak Plasmas**

L. Chen

I-17**FIRE: Exploring Advanced Burning Plasma Regimes at Reactor Power Densities**

Dale M. Meade

I-18**Steady-State High Performance Plasma Research in HT-7**

HT-7 team, presented by J.K. XIE

I-19**Overview on Recent Fusion Research Activities in Swip**

Chuanhong PAN, Yong LIU

I-20**Progress in U. S. Heavy Ion Fusion Research**

H. Qin, R. C. Davidson, P. Efthimion, E. P. Gilson, L. Grisham, I.D. Kaganovich, and E. A. Startsev

I-21**Basic Experiments for Plasma Application**

Noriyoshi Sato

I-22**Pattern Formation in a Dielectric Barrier Discharge**

Lifang DONG, Zengqian YIN, Xuechen LI, Zhifang CHAI, Yafeng HE, Long Wang

I-23**Progress in Physics and Technology Developments for the Modification of JT-60**

H. Tamai, S. Ishida and the JT-60SC Design Team

I-24**Technologies to Optimize Advanced Tokamak Performance**

Thomas C. Simonen

I-25**Study on Irradiation Performance and System Integration of Advanced Blanket through JUPITER-II Program**

K. Abe, A. Kohyama, S. Tanaka, C. Namba, S. Berk, S. J. Zinkle and D. Sze

I-26**Laser Fusion and Related Plasma Physics Research at ILE, Osaka University**

Kunioki Mima

I-27**Research Progress on Laser Fusion in China**

Shaoping ZHU

I-28**Magnetic Field Generation and Electron Dynamics in Relativistic Laser Plasma Interaction**

X.T. HE

I-29**Anomalous Stopping of Fast Electrons by EMHD Turbulence in Fast Ignition Concept of Laser Fusion**

P.K. Kaw, Amita Das, Neeraj Jain and Sudip Sengupta

I-30**Generation of Nonlinear Force Driven Blocks from Skin Layer Interaction of Petawatt-Picosecond Laser Pulses**

Heinrich Hora, Yu Cang, Xian-Tu He, Jie Zhang, F. Osman, J. Badziak, F.P. Boody, S. Gammino, R. Höpfl,

K. Jungwirth, B. Kralikova, J. Kraska, L. Laska, Hong Liu, G.H. Miley, P. Parys, Han-Sheng Peng,

M. Pfeifer, K. Rohlena, J. Skala, Z. Skladanowski, L. Torrissi, J. Ullschmied, J. Wolowski, Weiyan Zhang

I-31**Direct Measurements of the Electron Energy Flux versus Electron Temperature Gradient in Tokamak Discharges**

K.W. Gentle, M.E. Austin, P.E. Phillips

I-32**Current Status of the KSTAR Tokamak Engineering**

H.L. Yang, C.H. Choi, J.S. Bak, Y.K. Oh, Y.S. Kim, N.I. Her, K.H. Im, B.C. Kim, I.K. Yoo, J.W. Sa,

H.K. Kim, M. Kwon, G.S. Lee, and the KSTAR Team

I-33

Global Kinetic Analysis of Alfvén Eigenmodes in Toroidal Plasmas

A. Fukuyama

Oral Presentations**O-01****Present Status of the KSTAR Superconducting Magnet System Development**

Keeman Kim, H. K. Park, K. R. Park, B. S. Lim, S. I. Lee, M. K. Kim, Y. Chu, W. H. Chung, S. H. Baek, J. Y. Choi, H. Yonekawa, A. Chertovskikh, Y. B. Chang, J. S. Kim, C. S. Kim, D. J. Kim, N. H. Song, K. P. Kim, Y. J. Song, I. S. Woo, W. S. Han, D. K. Lee, D. W. Songa, J. S. Park, M. Kwon, G. S. Lee, H. J. Lee, T. K. Ko, S. J. Lee, and KSTAR Team

O-02**Double Tearing Mode in Plasmas with Anomalous Electron Viscosity**

J.Q. Dong, S. M. Mahajan, W. Horton

O-03**Magnetic Sensorless Sensing of Plasma Position in the Superconducting Tokamak HT-7**

Kazuo Nakamura, Z. S. JI, B. SHUN, P. Q. QIN, Satoshi Itoh, Kazuaki Hanada, Mizuki Sakamoto, Eriko Jotaki, Makoto Hasegawa, Atsuhiko Iyomasa, Shoji Kawasaki, Hisatoshi Nakashima

O-04**Production of a High-Mach-Number Plasma Flow for an Advanced Space Thruster**

Masaaki Inutake, Kyohei Yoshino, Shinya Fujimura, Hiroyuki Tobari, Tuyoshi Yagai, Youhei Hosokawa, Ryuichi Sato, Kunihiko Hattori, Akira Ando

O-05**Experimental Study of the Atomic and Molecular Processes related to Plasma Detachment in Steady State Divertor Simulator MAP-II**

S. Kado, S. Kajita, B. Xiao, Y. Iida, T. Shikama, D. Yamasaki, T. Oishi and S. Tanaka

O-06**The Features of KTM Divertor**

E.A. Azizov, V.V. Darmogray, N.Y. Dvorkin, I.N. Leykin

O-07**Design Methodology of Super-conducting Toroidal Field Coils For Tokamak Power Reactor without Center Solenoid Coil System**

S. Nishio, T. Ando, H. Yoshimura

O-08**Fusion Material Studies Relating to Safety in Russia in 2002**

B.N. Kolbasov, M.I. Guseva, Y.V. Martynenko, P.V. Romanov, S.A. Lelekhov, S.A. Bartenev

O-09**Characterization of Fusion Candidate Vanadium Alloys**

T. Muroga, T. Nagasaka, J.M. Chen, Z.Y. Xu, Q. Huang, Y.C. WU

O-10**Deuterium Retention and Physical Sputtering of Low Activation Ferritic Steel**

T. Hino, K. Yamaguchi, Y. Yamauchi, Y. Hirohata, K. Tsuzuki, Y. Kusama

O-11**The Behaviors of Ferritic Steels under Dual Beam Simultaneous Irradiation with He/Electron**

H. Takahashi, T. Horie, H. Kinoshita, T. Shibayama, and N. Sakaguchi

O-12**MHD Instabilities and Their Effects on Plasma Confinement in Large Helical Device Plasmas with Intense Neutral Beam Injection**

K. Toi, S. Ohdachi, S. Yamamoto, S. Sakakibara, K.Y. Watanabe, N. Nakajima, X. Ding, J. Li, S. Morita, K. Narihara, K. Tanaka, T. Tokuzawa, H. Yamada, Q. Yang and LHD experimental group

O-13**Studies on Snake-like Phenomena and Suppression of Central MHD Instabilities during LHCD in the HL-1M Tokamak**

Yi LIU, G.C. GUO, Y.Z. ZHONG, B.Z.FU, J. F. DONG, Y. LIU, L.Y. CHEN

O-14**Plasma Confinement Characteristics in Heliotron J**

T. Mizuuchi, H. Okada, K. Nagasaki, S. Kobayashi, F. Sano, K. Kondo, M. Nakasuga, Y. Nakamura, Y. Manabe, H. Shidara, Y. Suzuki, W. L. Ang, H. Kawazome, T. Takamiya, M. Iriguchi, M. Kaneko, H. Kubo, Y. Nishioka, Y. Ohno, H. Yukimoto, S. Nishio, K. Takahashi, S. Tuboi, M. Yamada, Y. Morita, K. Hanatani, V. Tribaldos, F. Tabar, D. Tafalla, M. Wakatani, T. Obiki

O-15**Direct Measurement of Poloidal Large-scale ExB Flows in the Boundary Plasma of the HT-7 Tokamak**

Guosheng XU, Baonian WAN, Mei SONG, Jiangang LI

O-16**Observations of the Magnetic Fluctuations and Reynold Stress in the Plasma of KT-5C Tokamak**

Gesheng PAN, Zhijiang WANG, Ronghua LU, Jun WANG, Shude WAN, Yizhi WEN, Changxuan YU

O-17**Overview of the SUNIST Spherical Tokamak**

Zhe GAO, C. H. FENG, Y. X. HE, L. WANG, W. H. WANG, X. Z. YANG, L. ZENG, and SUNIST team

O-18**Microscopic Damage and Helium Behavior in Metals Exposed to He Glow Discharge Cleaning in LHD**

N. Yoshida, M. Miyamoto, M. Tokitani, K. Tokunaga, H. Iwakiri, T. Fujiwara, S. Masuzaki, A. Komori

O-19**Effect of Ne Glow Discharge for Ion Density Control in LHD**

S. Morita, M. Goto, S. Masuzaki, H. Suzuki, H. Nozato, Y. Takeiri, LHD Experimental Group

O-20**Design Activities and R&D of FDS (Fusion-Driven Sub-critical System)**

Y.C. WU, Q.Y. HUANG, X.P. LIU, D.Z. XU, Y. KE, S.L. ZHENG, B. WU, W.H. WANG, Y. WANG, D.S. HUANG, C.J. GAO, X.X. ZHU, T.P. WANG, J.J. LI, Q. LI, H. LIN, C.J. LI and the FDS team

O-21**Study on Conceptual Design of Tritium Production Reactor Based on ST**

K.H. HE, J.H. HUANG

O-22**Development of Powerful RF Plasma Source for Present and Future NBI Systems**

E. Speth and NBI-Team

O-23**Compact PCI/LINUX Platform for Medium Level Control System in FTU**

C. Centioli, F. Iannone, M. Panella, G. Mazza, V. Vitale, L. Wang

O-24**Fault-Tolerance Operations of the Superconducting Current-Feeder System for LHD**

S. Yamada, T. Mito, R. Maekawa, S. Moriuchi, T. Uede, H. Hiue, I. Itoh, O. Motojima

O-25**Refueling for Steady-State Plasma by Repetitive Pellet Injection in Large Helical Device**

H. Yamada, R. Sakamoto, I. Viniar, M. Goto, K. Kikuchi, A. Lukin, S. Masuzaki, J. Miyazawa, S. Morita, Y. Oda, S. Sudo, H. Suzuki, K. Tanaka, LHD Experimental Group

O-26**Pellet Injectors Developed at the PELIN Laboratory for Steady-state Plasma Fuelling**

I. Vinyar

O-27**Effects of Sheared Flow on Microinstabilities and Transport in Plasmas**

H. Sanuki, K. Itoh, A. Fujisawa, Jiaqi DONG

O-28**Magnetised Dusty Sheaths in Magnetic Fields**

Yu. I. Chutov, O. Yu. Kravchenko, S. Masuzaki, A. Sagara, R.D. Smirnov, Yu. Tomita

O-29**The Properties and Structure of a Plasma Non-neutral Shock**

Yemin HU, Xiwei HU

O-30**Magnetic Reconnection: the Resistive and the Collisionless**

Xiaogang WANG

Poster Session 1 (MEC, FET)**MCE-01****A New Soft X-Ray PHA Diagnostics in the HT-7 Tokamak**

Zhongyong CHEN, Yuejiang SHI, Bo LV, Qingsheng Hu, Baonian. WAN, Liqun HU

MCE-02**Instabilities in the Long Pulse Discharges on the HT-7**

Xiang GAO and HT-7 Team

MCE-03**Behaviors of Heat Transportation in HT-7 High Performance Plasma**

Liqun HU, Yi XU, Baonian WAN, Yuejiang SHI, Xiangjun ZENG and HT-7 Team

MCE-04 **D_{α}/H_{α} line shape in the HT-7 tokamak**

Juan HUANG, BaoNian WAN, Zhengwei WU, Qian ZHOU

MCE-05**Simulation of Supersonic Molecular Beam Fuelling on HL-1M Tokamak**

Yiming JIAO, Yan ZHOU, Lianghua YAO, Jiaqi Dong

MCE-06**Study of density fluctuations with small-angle CO₂ laser collective scattering in HT-7 tokamak**

Yadong LI, Jiangang LI

MCE-07**Current State of Omegatron Analyzer on the HT-7 Tokamak**

Bili LING, Enyao WANG, Wei GAO, Baonian WAN, Jiangang LI

MCE-08**Measurement of Hard X-Ray Emission Spectrum in the HT-7 Tokamak**

Bo LV, Yuejiang SHI, Zhongyong CHEN, Baonian WAN, Liqun HU, Liwu ZHOU

Bili LING, Yi XU and the HT-7 Team

MCE-09**Formation of ST Plasmas by ECH on LATE**

Takashi Maekawa, H. Tanaka, M. Uchida, H. Igami, T. Yoshinaga and K. Higaki

MCE-10**Modulated LHCD Suppression of MHD Activity On the HT-7 Superconducting Tokamak**

J.S. MAO, B. SHEN, X. GAO, Y. YANG, L.Q. HU, G.S. Xu, W.C. SHEN, S.D. XU, Y.D. FANG,

J.R. LUO

MCE-11**Diamagnetic Signal in Current-free Stellarators**

V. D. Pustovitov

MCE-12**Recent Experimental Results of IBW Heating on the HT-7 Superconducting Tokamak**

Chengming QIN, Yanping ZHAO, HT-7team

MCE-13**Magnetic Diagnostics for the HT-7U Superconducting Tokamak**

Biao SHEN

MCE-14**Lower Hybrid Wave Coupling and Current Drive Experiments in HT-7 Tokamak**

Weici SHEN, Jiafang SHAN, Handong XU, Min JIANG and HT-7 Team

MCE-15**Primary magnetic shear reversal experiments in HT-7**

Yuejiang SHI, Bo LV, Zhongyong CHEN, Baonian WAN, Liqun HU, Xianzu GONG, Jinping QIAN,

Yi XU, Haiqing LIU, Zhenwei WU, Jiawen YU, Weici SHEN, Jiafang SHAN, Guangli KUANG,

Jiangang LI and HT-7 Team

MCE-16**The Influence of Neutral Particles on Edge Turbulence and Confinement in the HT-7 Tokamak**

M. SONG, B. N. WAN, G. S. XU, B. L. LING, C. F. LI and HT-7 Team

MCE-17**LHCD Properties with a New Lower Hybrid Wave Antenna on HT-7 Tokamak**

Wei WEI, Guangli KUANG, Bojiang DING, Weici SHEN and HT-7 Team

MCE-18**Critical Error Field Analysis in HT-7U Tokamak**

Di WU

MCE-19**Space-Time Resolved Spectroscopic System Based on a Rotating Hexahedral Mirror for Measurement of Visible and Ultraviolet Spectral Line Emission**

Zhenwei WU, Baonian WAN, Qian ZHOU, Juan HUANG

MCE-20**Determination of Rovibrational Distribution of Hydrogen Molecules in Low Temperature Plasma**

Bingjia XIAO, Shinichiro Kado, Shin Kajita, Daisuge Yamasaki and Satoru Tanaka

MCE-21**Density Behaviors on IBW Heating Experiments in the HT-7**

J. XU, X. GAO, H. Q. LIU, Y. F. CHENG, X. D. TONG, B. N. WAN, Y. X. JIE

MCE-22**A Nd: Glass High Power Laser Oscillator Using Rotating Beam on the HT-7 Thomson Scattering Apparatus**

L. YANG, J. Y. ZHAO, Y. D. LI, Z. S. FANG, J. S. MAO, V. Sannikov, A. Gorshkov

MCE-23**Experimental Status of the HANBIT Facility**

Suk Jae Yoo, M. Kwon, J. G. Bak, K. Choh, I. S. Choi, J. H. Choi, J. W. Choi, A. C. England, K. Hagiwara, J. Hong, H. S. Jeon, H. G. Jhang, J. S. Ju, M. Jung, J. Y. Kim, S. S. Kim, S. Y. Kim, Y. M. Kim, Y. D. Ko, W. H. Ko, K. Y. Kwak, M. C. Kyum, B. J. Lee, D. K. Lee, J. H. Lee, H. G. Lee, S. G. Lee, T. Lho, H. K. Na, B. H. Park, M. K. Park, D. C. Seo, S. H. Seo, J. H. Yeom, J. S. Yoon, K.-I. You

MCE-24**Plasma Current Formation of the SUNIST Spherical Tokamak**

Li ZENG, Yexi HE, SUNIST Team

MCE-25**The Measurement of the Light Impurity Radiation Profiles for the Impurity Particle Transport in the HT-7 Tokamak**

Qian ZHOU, Baonian WAN, Z.W. WU, Juan HUANG

MCE-26**The Study of Density Profile Behavior on HL-1M**

Yan ZHOU, Zhongchao DENG, Zetian LIU, Huiwen FU, Xuantong DING, Yong LIU, Enyao WANG

MCE-27**Neutron Behaviors Study on HT-7 Superconducting Tokamak**

Yubao ZHU, J.Q. CHEN, Jiangang LI, Baonian WAN, M. Sasao, M. Isobe, G.M. LI

FET-01**Efremov Institute Experimental and Technological Complex for Development of Plasma Facing Components for Fusion Reactor**

V. Belyakov, O. Filatov, I. Mazul

FET-02**The Design and Manufacture of Testing Full-size Joint for EAST (HT-7U)**

Siyue CHEN, Peide WENG, Yu WU, Youhua ZHU

FET-03**Advanced Equilibrium Configuration Research for Fusion-Driven Subcritical System**

Delin CHU, Bin WU

FET-04**Report “ Movable Divertor with Changeable Plates for Research Fusion Device”**

Naum Dvorkin

FET-05**General Directions and Recently Test Modeling Results of Lithium Capillary-Pore Systems as Plasma Facing Components**

V.A. Evtikhin, I.E. Lyublinski, A.V. Vertkov, E.A. Azizov, S.V. Mirnov, V.B. Lazarev, V.M. Safronov, V.M. Korzhavin

FET-06**A 60GHz Transmitter for ECRH Experiment in HT-7 Tokamak**

Yude FANG, Lixia ZHANG, Pin ZHANG, Baohua LIU, Songqin JU, Changchun YANG, Tonghai DING and Kun YANG

FET-07**Manufacturing and Technological Aspects in ITER Plasma Facing Components Development**

Radmir Giniyatulin, V. Kuznetsov, I. Mazul, A. Makhankov, I. Ovchinnikov, M. Rumyantsev, K. Skladnov, Yu. Strebkov, V. Titov, N. Yablokov

FET-08**Differential Residual Gas Analysis During Plasma Discharge in HT-7 Superconductor Tokamak**

Jiansheng HU and HT-7 team

FET-09**Feedback Control of the LHW Power by HVPS**

Yiyun HUANG

FET-10**Scale Effect on the Magnet System of a Heliotron-Type Reactor**

Shinsaku Imagawa, Akio Sagara

FET-11**The Distributed Control system in HT-7 Tokamak**

Zhenshan JI, Jiarong LUO, Feng WANG, Lin ZHU, Huazhong WANG

FET-12**Feedback Control System for the Antenna Phase Difference of Lower Hybrid Current Drive**

Min JIANG, Jiafang SHAN, Jianan LIN

FET-13**The Design of the Data System in the HT-7U Tokamak**

Guiming LI, Jiarong LUO, Lin ZHU, Zhenshan JI, Huazhong WANG, G. Li

FET-14**The designed Operation of the Machine Control System on HL-2A Tokamak**

Qiang LI, Mingjie FAN, Minghong WANG, Cuiwen LUO, Fangqun TANG

FET-15**The Plasma Control System for HL-2A Preprogrammed Discharge**

Li LIU, Baoshan YUAN, Suying MAO, Bo LI, Qiang LI, Xianming SONG

FET-16**The Design of the Control System in the HT-7U Tokamak**

Jiarong LUO, Huazhong WANG, Zhenshan JI, Feng WANG, Dazheng ZHAO

FET-17**New Cooling Down Procedure of the HT-7 Superconducting Coils**

Zhengrong OUYANG and Cryogenic Group of HT-7

FET-18**Design Activities and Key Issues on Flexible Blanket System in Helical Reactor FFHR**

Akio Sagara, Satoshi Fukada, Akihiro Simizu, Yican WU, Osamu Mitari, Tomoaki Kunugi, Hidetoshi Hashizume, Saburo Toda, Takayuki Terai, Satoru Tanaka, Richard Mattas and Dai-Kai Sze

FET-19**Design and R&D Issues of Plasma Facing Components for Superconducting Modification of JT-60**

Shinji Sakurai, K. Masaki, Y. Miyo, Y. Kudo, K. Urata, S. Sasajima, H. Tamai, A. Sakasai, M. Matsukawa and S. Ishida

FET-20**Advanced Control Scenario of High-Performance Steady-State Operation for JT-60U Superconducting Tokamak**

H. Tamai, G. Kurita, M. Matsukawa, S. Sakurai, K. Tsuchiya, K. Urata, K. Masaki, A. Morioka, Y. M. Miura, K. Kizu, Y. Kudou, A. Sakasai, S. Ishida

FET-21**An In-time Diagnostic & Control System for the Pellet Injection System on HT-7 Superconducting Tokamak**

H.Y. WANG , P.R. ZHANG , Y. SUN , J.C. WANG , I. Vinyar and Y. YANG

FET-22**Real Time Equilibrium Reconstruction Algorithm in HT-7U Tokamak**

Huazhong WANG, Wanpin ZHAO, Jiarong LUO, Qinchao HUANG, Junzhao LI, Feng WANG

FET-23**The Data Acquisition System Based on VXI and PCI Bus**

Huazhong WANG, Gang LI, Zhenshan JI, Guiming LI

FET-24**Higher Performance Opto-coupled Isolators**

Jun WANG, Shude WAN, Yizhi WEN, Changxuan YU, Gesheng PAN, Wandong LIU, Zhijiang WANG, Ronghua LU, Delong XIAO, Min XU

FET-25**High Power Microwave Test System And Experiments**

Mao WANG, Yuexiu LIU, Jiafang SHAN, Handong XU, Jiawen YU

FET-26**Developments of the Fast Ionization Gauge in HL-2A**

Mingxu WANG, Bo LI, Zhigang YANG, Nianman ZHANG, Jihong WU, Donghai YAN, Jianjun GUO

FET-27**The Design and Analysis of Running Results of Poloidal Field Grid Power Supply system of HT-7 Superconducting Tokamak**

Liuwei XU, Xiaoning LIU

FET-28**Present Developments of Data Acquisition System on HL-2A**

Y. YANG, L. Y. CHEN, Q. LI, L. PAN

FET-29**The Analyzed Database in HT-7 Tokamak**

Chunfei ZHANG, Jiarong LUO, Lin ZHU

FET-30**The Control System of the HT-6M Tokamak**

Sheng LIU, Ling WANG, Junyu ZHAO, Mingjun WU, Jianguang JIANG, Yuqin HAN

FET-31**The Analysis of Pressure Distribution of HT-7 Neutral Beam Injection System**

Lian CHEN , Chundong HU, Wu ZHU , Liqun HU, Shaohu WANG

FET-32**The Design of Calorimeter for Neutral Beam Injector (NBI)**

Huiquan HE, Liqun HU, Chundong HU, Jianhua GONG, Shaohu WANG

FET-33**H-Beam Stripping Loss of Background Partial Pressure of Ar**

Chundong HU, Shaohu WANG, Liqun HU

FET-34**The ASIPP NBI Power Supply System**

Zhimin LIU, Xiaoning LIU, Chundong HU, Liqun HU, Sheng Liu, Shaohu WANG

FET-35**The Design of Total Control System of Neutral Beam Injection System**

Li WANG, Chundong HU, Liqun HU, Shaohu WANG, Wu ZHU

FET-36**The Structural Analyzing and Calculating for the Radiation Baffle of Cryopumps**

Juan WANG, Zhengrong OYANG, Wu ZHU, Chundong HU, Liqun HU, Shaohu WANG

FET-37**The Overhaul and Design Work for the Cryopumps of Neutral Beam Injector**

Yuanlai XIE, Zhengrong OYANG, Changqi CHEN, Chundong HU, Liqun HU, Shaohu WANG

FET-38**Fabrication of the Toroidal Field Coil Case for Superconducting Tokamak HT-7U**

W.G.CHEN, Y.N.PAN, J.WEI, S.M.WANG, S.T.WU, P.D.WENG, P.ZHANG, J.F.WU, W.H.ZHU, Y.T.HUANG, J.G.ZHA, H.LIU, Z.G.WANG

Poster Session 2 (PTM, IFR, BPS, FM)**PTM-01****Short Wavelength Temperature Gradient Driven Ion Modes and Electron Temperature Gradient Driven Modes in Sheared Slab Plasmas**

Zhe GAO, H. Sanuki, K. Itoh, J. Q. DONG

PTM-02**Study of Vibrational Distribution of D₂ Molecules in Edge Plasmas**

M.L. HE, B.J. XIAO

PTM-03**Simulation of Multi-Steady States and Self-Oscillations In Gas Discharge**

Hong LI, Xiwei HU

PTM-04**Application of Genetic Algorithm for Neutronics/Burnup Calculation of a Nuclear Energy System**

Jingjing LI, Yican WU and FDS team

PTM-05**Simulation of the Plasma Current and the Radial Position Controls in HL-2A**

S.Y. MAO, B.S. YUAN, Q. LI, L. LIU, C. JIANG

PTM-06**A New Improvement method of Abel Inversion**

Huailin RUAN, Baonian WAN, Liqun HU, Yuejiang SHI

PTM-07**The Eikonal Approximation to Electromagnetic Waves in the Plane Geometry and Plasma Sphere**

Falun SONG, Jinxiang CAO, Ge WANG

PTM-08**A Theoretical Analysis of Liquid Metal Jet Flow Magneto-Hydrodynamic Stabilities in a Non-uniform Magnetic Field**

Zengyu XU, Weishan KANG, Chuanjie PAN

PTM-09**Plasma Conductivity in Toroidal Geometry**

Guoyang YU

PTM-10**Plasma Equilibrium Reconstruction with Electron Cyclotron Emission/Thompson Scatter and Current-Hole Constraints**

Cheng ZHANG, L.L. Lao

PTM-11**Sawtooth Stabilization by Barely Trapped Energetic Electrons**

Deng ZHOU, Shaojie WANG, Cheng ZHANG

PTM-12

Simulation Analysis of Divertor Performance in HT-7U

Sizheng ZHU, Xuejun ZHA

IFR-01

Experimental EOS Determination of Aluminum at Mbar Pressure

J. P. CHEN, R. X. LI, Z. N. ZENG, X. T. WANG, Z. Z. XU

IFR-02

Electron Acceleration by a Tightly Focused Gauss Laser Beam

Feng HE, Wei YU, Peixiang LU

IFR-03

Interactions of a Femto-second Intense Laser with Rare Gas Clusters in a Dense Jet

Shaohui LI, Cheng WANG, Jiansheng LIU, Pinpin ZHU, Xiangxin WANG, Guoquan NI, Ruxin LI, Zhizhan XU

IFR-04

Diagnostics of the Electronic Temperature in Coronal Plasma by Inter-Stage Line Ratios

Xiangdong LI, Cheng WANG, Shensheng HAN, Zhizhan XU

IFR-05

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