



核工业西南物理研究院
Southwestern Institute of Physics

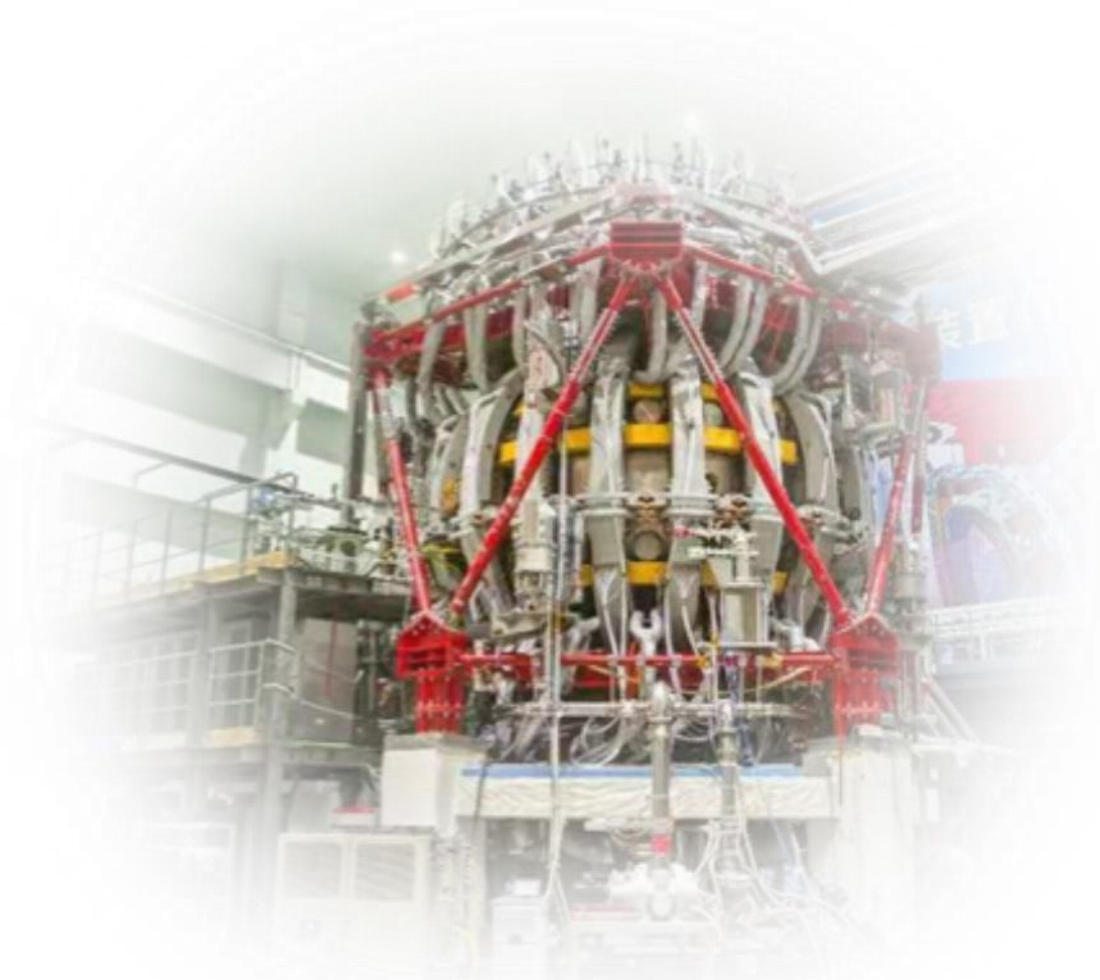


Annual Academic Conference

Conference Manual

April 27 - 28, 2021

Organizer: Center for Fusion Science, SWIP



Agenda

| No. | Time | Presenter | Title | Host |
|-----------------------------|-------------|---------------|---|-------------|
| April 27, 2021 | | | | |
| Conference Room No.1 | | | | |
| 1 | 09:00—09:20 | | Opening | Wulyu Zhong |
| 2-1 | 09:20—09:40 | Juan Du | The progress of the qualification program of the ITER enhanced heat flux first walls | Qiang Li |
| 2-2 | 09:40—10:00 | Guoliang Xiao | Innovative Progress of Supersonic Molecular Beam Injection for Controlling Particle and Instabilities in Fusion Devices | |
| 3-1 | 10:00—10:15 | Qi Yu | Development of a Core Snubber System for 200 kV High Voltage Deck of Radio Frequency Negative Ion Source | |
| 3-2 | 10:15—10:30 | Shaobo Gong | Improved confinement with turbulence transition by low hybrid wave in high β_N H-mode plasmas | |
| - | 10:30—10:40 | | Break | |
| 4-1 | 10:40—11:00 | Xiao Song | Plasma initiation and preliminary magnetic control in the HL-2M tokamak | Jiquan Li |
| 4-2 | 11:00—11:20 | Ruirui Ma | Global theory of beta-induced Alfvén eigenmode excited by trapped energetic electrons | |
| 5-1 | 11:20—11:35 | Zhe Chen | An overview of thick tungsten coating prepared by chemical vapor deposition and manufacture of relevant mockup | |

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| 5-2 | 11:35—11:50 | Jinming Gao | Type-I ELM power loads on the closed outer divertor targets | |
| 6 | 12:30—14:00 | Poster Section | | |
| 7-1 | 14:00—14:20 | Huiling Wei | Design of a test negative ion source of combination with RF discharge and filaments arc discharge for NBI heating | Pengyuan Li |
| 7-2 | 14:20—14:40 | Min Jiang | Modulation of the trapped electron driven turbulence by $m/n=2/1$ tearing mode in the core of HL-2A plasmas | |
| 8-1 | 14:40—14:55 | Liming Yu | Experimental Evidence of Nonlinear Avalanche Dynamics of Energetic Particle Modes | |
| 8-2 | 14:55—15:10 | Sun Tengfei | Edge Coherent Oscillation Providing Nearly Continuous Transport during ELM Mitigation by $n = 1$ RMP in HL-2A | |
| - | 15:10—15:20 | Break | | |
| 9-1 | 15:20—15:40 | Yuncong Huang | Experimental Study on Baking Performance of HL-2M Vacuum Vessel | Mei Huang |
| 10-1 | 15:40—15:55 | Yaorong Yang | Hybrid simulations of reversed shear Alfvén eigenmodes and related nonlinear resonance with fast ions in a tokamak plasma | |
| 10-2 | 15:55—16:10 | Zhenyuan Fan | Design and Simulation of High Voltage Power Supply in CFETR Ion Cyclotron Auxiliary Heating System | |
| 10-3 | 16:10—16:25 | Neng Zhang | Ideal internal kink stability in presence of plasma flow and neoclassical toroidal viscosity due to energetic particles | |
| 10-4 | 16:25—16:40 | Lisha Xu | A preliminary study on the feasible design of bionic blanket concept | |

| No. | Time | Presenter | Agenda Item | Host | |
|-----------------------------|-------------|-------------|--|-------------|--|
| April 28, 2021 | | | | | |
| Conference Room No.1 | | | | | |
| 1-1 | 09:00—09:20 | Long Zhang | Progress on the safety demonstration of China ITER Helium Coolant Ceramic Breeder Test Blanket | Jiming Chen | |
| 1-2 | 09:20—09:40 | Hailong Du | A new concept advanced divertor manipulating Ex B drift to improve Detachment for Both B_t directions on HL-2M | | |
| 2-1 | 09:40—09:55 | Yunpeng Zou | Experimental Validation of an Improved Critical Gradient Model and Alpha Particle Redistribution Prediction for CFETR Steady State Operation | | |
| 2-2 | 09:55—10:10 | Pan Huang | The development of W/RAFM-steel diffusion bonding technologies for fusion reactor first wall in SWIP | | |
| 2-3 | 10:10—10:25 | Dong Li | Development of the Bayesian tomography method for the study of MHD instability and impurity transport | | |
| - | 10:25—10:35 | Break | | | |
| 3-1 | 10:35—10:55 | Xiaoyu Wang | Preliminary Safety Strategy and Safety Assessment for CFETR | Longwen Yan | |
| 4-1 | 10:55—11:10 | Na Wu | The mechanism research of double strike points of the divertor particle flux in HL-2A ECRH plasmas | | |
| 4-2 | 11:10—11:25 | Xin Chen | RAMI analysis of the helium refrigeration system of HL-2M tokamak | | |
| 4-3 | 11:25—11:40 | Xinghua Wu | Preliminary design and fabrication R&D of CN HCCB TBM | | |

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| 5 | 12:30—14:00 | Poster Section | | |
| 6-1 | 14:00—14:20 | Tianbo Wang | New progress of tungsten impurity real-time monitoring method on HL-2A | Yingqiao Wang |
| 7-1 | 14:20—14:35 | Hangyu Zhou | Development of high-speed soft x-ray imaging diagnostic on HL-2A | |
| 7-2 | 14:35—14:50 | Feng Wang | Nonlinear interaction between magnetic island and ITG | |
| 7-3 | 14:50—15:05 | Yi Zhou | Demountable sealing solution for ITER Shield Block hot helium leak test | |
| - | 15:05—15:15 | Break | | |
| 8-1 | 15:15—15:35 | Dongye Zhao | Investigation of boron distribution and material migration on the W7-X divertor by picosecond LIBS | Xiang Liu |
| 9-1 | 15:35—15:50 | Hao Liu | Development of a large diameter helicon plasma source and characteristics of helicon plasma in linear plasma device LEAD. | |
| 9-2 | 15:50—16:05 | Lingfeng Lu | Development of a new COMSOL based helicon wave simulation tool | |
| 9-3 | 16:05—16:20 | Chao Liao | Simulation research on quench protection circuit using hybrid DC circuit breaker | |
| 10 | 16:20—16:40 | Selection of excellent reports and summary (participants: conference affairs group) | | |

Poster Section

| No. | Department | Presenter | Title |
|-------------------------------------|------------|-----------|--|
| 12:30 – 14:00 April 27, 2021 | | | |
| 1-1 | 101 | 李兵利 | Tomography of emissivity measured by Doppler coherence imaging spectroscopy diagnostic in HL-2A |
| 1-2 | 101 | 苗雨田 | Synergistic influences of kinetic effects from thermal particles and fast ions on internal kink mode |
| 1-3 | 101 | 王雍钦 | Numerical study of fast ion redistribution induced by fishbone instability |
| 1-4 | 101 | 付彩龙 | Numerical Simulations of Plasma Dynamics and Optical Emission of High-Z Tokamak Wall Materials Ablated by Dual-Pulse Laser |
| 1-5 | 101 | 龚少博 | Improved confinement with turbulence transition by low hybrid wave in high β_N H-mode plasmas |
| 1-6 | 101 | 李世敏 | Integrated simulation of HL-2M plasma discharge with advanced snowflake divertor |
| 1-7 | 101 | 史永福 | Fast integrated modelling of CFETR 1GW hybrid and steady state scenarios |
| 1-8 | 101 | 董冠岐 | MARS-Q Modeling of kink-peeling instabilities in QH-mode plasma |
| 1-9 | 101 | 韩明昆 | Impurity mode induced turbulent particle transport and its temperature screening effect |
| 1-10 | 101 | 李正吉 | Steady state operation scheme design of HL-2M Tokamak |
| 1-11 | 101 | 吴婷 | Effect of edge turbulent transport on scrape-off layer width on HL-2A tokamak |
| 1-12 | 101 | 马瑞瑞 | Global theory of beta-induced Alfvén eigenmode excited by trapped energetic electrons |
| 1-13 | 101 | 郝广周 | Toroidal modelling of plasma response to RMP fields for HL-2M |
| 1-14 | 101 | 杨耀荣 | Hybrid simulations of reversed shear Alfvén eigenmodes and related nonlinear resonance with fast ions in a tokamak plasma |
| 1-15 | 101 | 刘自结 | Plasma current reconstruction for HL-2A based on Bayesian inference |
| 1-16 | 101 | 任广智 | Gyro-Landau-Fluid simulation of slab ion-temperature-gradient instabilities in reverse magnetic shear configuration |
| 1-17 | 101 | 张晓然 | Impurity effects on trapped electron modes in tokamak plasmas with inverted electron density profile |
| 1-18 | 102 | 张能 | Ideal internal kink stability in presence of plasma flow and neoclassical toroidal viscosity due to energetic particles |

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|------|-----|-----|---|
| 1-19 | 102 | 刘亮 | The visible wide-angle view imaging system for first plasma on HL-2M tokamak |
| 1-20 | 102 | 何小雪 | Characteristics of ITBs and the connection between ITBs and MHDs on HL-2A Tokamak |
| 1-21 | 102 | 臧临阁 | Analysis of nonlinear mode-mode interaction using Hilbert transform on HL-2A |
| 1-22 | 102 | 屈玉凡 | Design of the stripping unit and the electromagnetic analysis unit for an E//B NPA |
| 1-23 | 102 | 张洁 | Application of the Abel-inversion method for the hard X-ray camera on the HL-2A tokamak |
| 1-24 | 102 | 侯玉梅 | Nonlinear simulations of the bump-on-tail instabilities in tokamak plasmas |
| 1-25 | 102 | 姚可 | Observation of high-k turbulent density fluctuations modulated by tearing mode islands in HL-2A core plasmas |
| 1-26 | 102 | 蒋敏 | Modulation of the trapped electron driven turbulence by $m/n=2/1$ tearing mode in the core of HL-2A plasmas |
| 1-27 | 102 | 闻杰 | Observation of a pedestal quasi-coherent mode in type-I ELMy H-mode of the HL-2A tokamak |
| 1-28 | 102 | 王浩西 | Development of CO ₂ dispersion interferometer on HL-2M |
| 1-29 | 102 | 朱宇轩 | Probe Measurements of Electron Energy Distribution in LEAD Plasma |
| 1-30 | 102 | 高金明 | Type-I ELM power loads on the closed outer divertor targets |
| 1-31 | 102 | 肖国梁 | Innovative Progress of Supersonic Molecular Beam Injection for Controlling Particle and Instabilities in Fusion Devices |
| 1-32 | 102 | 赵伟 | R&D of ITER Divertor Langmuir Probe |
| 1-33 | 102 | 邓维楚 | Design of Collective Thomson Scattering System on the HL-2A Tokamak |
| 1-34 | 103 | 查方正 | Recent progress of NFM design |
| 1-35 | 103 | 邱银 | Fabrication and Assembly Review of Toroidal Field Coil for HL-2M |
| 1-36 | 103 | 胡毅 | The Development of GDC Electrode for HL-2M |
| 1-37 | 103 | 黄文玉 | Progress of engineering design of CFETR He-cooled divertor |
| 1-38 | 103 | 黄运聪 | Briefly introduction of ITER Tokamak Assembly Contract(TAC1) work |
| 1-39 | 103 | 黄运聪 | Experimental Study on Baking Performance of HL-2M Vacuum Vessel |
| 1-40 | 103 | 贾瑞宝 | Design and Manufacture of Cooling Water Dynamic Monitoring Unit for HL-2M Water System |

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| 1-41 | 104 | 于祺 | Development of a Core Snubber System for 200 kV High Voltage Deck of Radio Frequency Negative Ion Source |
| 1-42 | 104 | 郝郁 | Numerical simulation on the effect of contact thermal resistance on temperature distribution of water-cooled ceramic insulating glow discharge electrode |
| 1-43 | 104 | 陈程 | Research of millimeter wave TE ₁₀ -TE ₁₁ -HE ₁₁ mode converter |
| 1-44 | 104 | 魏会领 | Design of a test negative ion source of combination with RF discharge and filaments arc discharge for NBI heating |
| 1-45 | 104 | 张琦 | Operational procedure/Control logic of Nuclear Safety Functions of ITER GIS |
| 1-46 | 105 | 程昊 | Analysis of the flow field and heat transfer characteristics of purge gases in pebble beds of solid tritium breeder blanket |
| 1-47 | 105 | 都娟 | The progress of the qualification program of the ITER enhanced heat flux first walls |
| 1-48 | 105 | 巩保平 | Investigation on the fragmentation of breeder pebbles and the packing behaviors of breeder pebble beds for fusion blanket |
| 1-49 | 105 | 缙俊 | Study on the transformation of laser welding mode of CLF-1 steel |
| 1-50 | 105 | 洪志浩 | Research on hydrogen isotope permeation of hydrogen and deuterium in CLF-1 steel |
| 1-51 | 105 | 王琦杰 | Engineering design of CFETR In-Wall Shielding |
| 1-52 | 105 | 冷桢 | -Successful development of the second Hot Helium Leak Test facility |
| 1-53 | 105 | 周毅 | Demountable sealing solution for ITER Shield Block hot helium leak test |
| 1-54 | 105 | 李茹烟 | Development of Tritium Dynamic Transport Analysis Tool |
| 1-55 | 105 | 梁健伟 | Progress of Code Development of System-safety Analysis for Fusion Reactor |
| 1-56 | 105 | 廖洪彬 | The research and fabrication of semi-prototype HCCB TBM |
| 1-57 | 105 | 屈伸 | Neutronics Effect Study of Homogeneous Model on Solid Breeder Blanket |
| 1-58 | 105 | 屈伸 | Optimization study and multiple physics analyses of CFETR Helium-cooled solid breeder blanket design |
| 1-59 | 106 | 宋啸 | Plasma initiation and preliminary magnetic control in the HL-2M tokamak |
| 1-60 | 106 | 任磊磊 | Planning and design of HL-2M EMC laboratory |
| 1-61 | 106 | 杨宗谕 | A more interpretable and compact disruption predictor based on deep learning in HL-2A |
| 1-62 | 106 | 张鑫 | Application Research of Integrated Modeling and Analysis Suit on HL-2M |

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| 1-63 | 106 | 孙腾飞 | Edge Coherent Oscillation Providing Nearly Continuous Transport during ELM Mitigation by $n = 1$ RMP in HL-2A |
| 1-64 | 106 | 陈翔 | Preliminary design of ITER Langmuir probe measurement and control system |
| 1-65 | 107 | 钱伟 | The mechanism of periodic surface patterns induced by plasma exposure |
| 1-66 | 107 | 王凡 | Study on MHD Flow in Insulated Circular Pipe |
| 1-67 | 107 | 王磊 | Effects of inclined transversal magnetic fields on magnetohydrodynamic coupling ducts flow states in liquid metal blankets |
| 1-68 | 107 | 徐丽莎 | A preliminary study on the feasible design of bionic blanket concept |
| 1-69 | 108 | 陈俊宏 | Controllable pulse current source for TF coil of spherical Tokamak |
| 1-70 | 108 | 范臻圆 | Design and Simulation of High Voltage Power Supply in CFETR Ion Cyclotron Auxiliary Heating System |
| 1-71 | 108 | 何金成 | Simulation of an optimal power factor control algorithm based on vector control |
| 1-72 | 108 | 李春林 | Development of PSM high voltage power supply control system based on DSP & FPGA |
| 1-73 | 108 | 廖超 | Simulation research on quench protection circuit using hybrid DC circuit breaker |
| 1-74 | 设计中心 | 陈哲 | An overview of thick tungsten coating prepared by chemical vapor deposition and manufacture of relevant mockup |
| 1-75 | 设计中心 | 朱运鹏 | Electromagnetic and mechanical analysis of a toroidal field coil winding pack for a HTS tokamak device |
| 1-76 | 设计中心 | 王硕 | Modeling active control of resistive wall mode with power saturation and sensor noise on HL-2M |

| No. | Department | Presenter | Title |
|-------------------------------------|------------|-----------|--|
| 12:30 – 14:00 April 28, 2021 | | | |
| 2-1 | 101 | 王丰 | Nonlinear interaction between magnetic island and ITG |
| 2-2 | 101 | 严一帆 | The Influence of radial electric field and shear on direct loss of ion orbit |
| 2-3 | 101 | 刘灏 | Development of a large diameter helicon plasma source and characteristics of helicon plasma in linear plasma device LEAD |
| 2-4 | 101 | 王卓 | Advanced scenario simulation on HL-2M tokamak |

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| 2-5 | 101 | 卢凌峰 | Development of a new COMSOL based helicon wave simulation tool |
| 2-6 | 101 | 陈逸航 | Study of Electron Heat Flux – Gradient Hysteresis on HL-2A tokamak |
| 2-7 | 101 | 周艺轩 | Design of a Lyman-Alpha-Based BES for edge plasma density diagnosing on the HL-2A tokamak |
| 2-8 | 101 | 袁金榜. | Observation of blobs using gas puff imaging diagnostic on the HL-2A tokamak |
| 2-9 | 101 | 武婷婷 | Effects of poloidal and parallel equilibrium flows on internal kink mode instability in tokamak plasmas |
| 2-10 | 101 | 钟志航 | Integrated simulation study of HL-2M discharge in high confinement mode with OMFIT |
| 2-11 | 101 | 付文明 | Numerical simulations of plasma and helium transport during He-SMBI induced detachment in HL-2A tokamak |
| 2-12 | 101 | 刘林子 | RMP effects on fast ion induced BAE in HL-2A tokamak |
| 2-13 | 101 | 罗一鸣 | Integrated simulation of plasma confinement performance of HL-2A tokamak |
| 2-14 | 101 | 李春雨 | Coil Phasing Optimization of Toroidal Plasma Response based Resonant Magnetic Perturbation for HL-2M |
| 2-15 | 101 | 邹云鹏 | Experimental Validation of an Improved Critical Gradient Model and Alpha Particle Redistribution Prediction for CFETR Steady State Operation |
| 2-16 | 101 | 王天博 | New progress of tungsten impurity real-time monitoring method on HL-2A |
| 2-17 | 101 | 李佳 | Quasi-linear heat transport induced by ITG turbulence in the presence of impurities |
| 2-18 | 101 | 李慧 | Characteristics of particle transport due to TEM and ITG turbulence in tokamak plasmas |
| 2-19 | 101 | 王元震 | Construction and optimization of double transport barrier equilibria of HL-2M |
| 2-20 | 102 | 魏凌峰 | Instrument control related work on ITER |
| 2-21 | 102 | 朱毅仁 | Simulation study of edge localized modes mitigation with impurity injection in HL-2A |
| 2-22 | 102 | 周航宇 | Development of high-speed soft x-ray imaging diagnostic on HL-2A |
| 2-23 | 102 | 张轶泼 | Effects of LHCD and LBO on Runaway Electron Dynamics during Disruptions in the HL-2A Tokamak |
| 2-24 | 102 | 佟瑞海 | Design of cross-polarization scattering diagnostic on HL-2A |
| 2-25 | 102 | 于利明 | Experimental Evidence of Nonlinear Avalanche Dynamics of Energetic Particle Modes |
| 2-26 | 102 | 李栋 | Development of the Bayesian tomography method for the study of MHD instability and impurity transport |

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| 2-27 | 102 | 王威策 | The effect of sheared ExB flow on the blob dynamics in the Scrape-Off Layer of HL-2A tokamak |
| 2-28 | 102 | 吴娜 | The mechanism research of double strike points of the divertor particle flux in HL-2A ECRH plasmas |
| 2-29 | 102 | 苗祥淦 | An extensive thermal diagnostics package for the determination of divertor heat flux footprints on HL-2A |
| 2-30 | 102 | 何小斐 | Measurement of Impurity Concentration by Combined Charge Exchange Recombination Spectra and Beam Emission Spectra in HL-2A |
| 2-31 | 102 | 刘春华 | Stray laser light simulation of Thomson scattering systems in the HL-2M tokamak |
| 2-32 | 102 | 方凯锐 | Dynamics of thermal turbulence during non-local transport in a gas-puffing experiment on HL-2A |
| 2-33 | 102 | 翟文延 | Image analysis technology is used to identify X points |
| 2-34 | 102 | 杨曾辰 | The plasma position measurement via microwave reflectometer |
| 2-35 | 102 | 余鑫 | Simulation of ECE diagnose measurement of Te profile from high and low field side |
| 2-36 | 103 | 唐乐 | Electromagnetic analysis of CFETR vacuum vessel and its ports during vertical displacement event |
| 2-37 | 103 | 许婕 | 2020 HL-2M main machine engineering parameter measurement work report |
| 2-38 | 103 | 李云峰 | Research on the cooling performance of Hypervapotron structure for HL-2M |
| 2-39 | 103 | 陈鑫 | RAMI analysis of the helium refrigeration system of HL-2M tokamak |
| 2-40 | 103 | 张龙 | The Research on the EM behavior for NFM in ITER |
| 2-41 | 103 | 钟云珂 | The RAMI analysis of CPI-60 High-frequency Cryogenic Pellet Injection System |
| 2-42 | 103 | 周军 | Preliminary results of mass spectrometry measurements on HL-2M tokamak |
| 2-43 | 104 | 王超 | Preliminary study on the TE01 mode convertor and tapers for low-loss LHCD transmission line |
| 2-44 | 104 | 杨印 | Investigation on the wall conditioning of TOKAMAK |
| 2-45 | 104 | 谷正阳 | Characterisation of gas metering system with ITER relevant mass flow controller and pipe configuration |
| 2-46 | 104 | 赵宇轩 | I&C system design for characterization of ITER pipe line system |
| 2-47 | 104 | 陈林 | Briefly introduction of ITER Tokamak Assembly Contract(TAC1) 3D model&2D drawing processing - ChenLin |
| 2-48 | 105 | 汪帅彧 | Multi-physical field coupled magnetohydrodynamic analysis of characteristic structure of liquid lead-lithium blanket |

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| 2-49 | 105 | 王俊 | Development of System Code to Assess Implication of Physics and Engineering Assumptions on the Design of a Demonstrator |
| 2-50 | 105 | 王龙 | Progress on compatibility between tritium permeation barrier and Li ₄ SiO ₄ tritium breeder in SWIP |
| 2-51 | 105 | 黄攀 | The development of W/RAFM-steel diffusion bonding technologies for fusion reactor first wall in SWIP |
| 2-52 | 105 | 王晓宇 | Preliminary Safety Strategy and Safety Assessment for CFETR |
| 2-53 | 105 | 王学芹 | study on Ultrasonic Testing Technology of shield welding test module |
| 2-54 | 105 | 吴晶 | Altered design and finite element analysis of ITER EHF FW |
| 2-55 | 105 | 李佳霖 | Process research and development of insulating coatings of First Wall in ITER |
| 2-56 | 105 | 张龙 | Progress on the safety demonstration of China ITER Helium Coolant Ceramic Breeder Test Blanket |
| 2-57 | 105 | 武兴华 | Preliminary design and fabrication R&D of CN HCCB TBM |
| 2-58 | 105 | 周冰 | Accident classification and initial events for CFETR |
| 2-59 | 106 | 崔步天 | Design of Bias Electrode on HL-2A |
| 2-60 | 106 | 王傲 | Development of Metal Hall Detector in Magnetic Measurement |
| 2-61 | 106 | 刘攀乐 | Development Progress of HL-2M Distributed Timing System |
| 2-62 | 106 | 张均钊 | Development of magnetic probes on HL-2M |
| 2-63 | 106 | 李宜轩 | Real-time acquisition module based on Linux system |
| 2-64 | 107 | 魏然 | Sintering and testing of bulk nanocrystalline Tungsten |
| 2-65 | 107 | 张归航 | Exploration on the Fuse Method to Test the Irradiation Temperature |
| 2-66 | 107 | 张志杰 | A small specimen testing method to determine low cycle fatigue of metallic materials |
| 2-67 | 107 | 赵栋焯 | Investigation of boron distribution and material migration on the W7-X divertor by picosecond LIBS |
| 2-68 | 107 | 赵耀 | Magnetic field and velocity distribution in ferritic ducts under external strong magnetic fields |
| 2-69 | 108 | 任青华 | Design and simulation of reverse field pinch pulse power supply system |
| 2-70 | 108 | 王海兵 | The Research of Reactive Power Compensation and Harmonic Suppression of Pulse Generator Rectifier Power System |

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| 2-71 | 108 | 徐玉麟 | Quench protection high power pulse power supply system |
| 2-72 | 108 | 叶强 | Design of HL-2M pulse motor generator excitation controller |
| 2-73 | 108 | 张潇鹏 | Preliminary study on current sharing of solid state switch in quench protection system |
| 2-74 | 设计中心 | 王小勇 | Assessment of the structural design criteria to prevent ratcheting damage for fusion component design |
| 2-75 | 设计中心 | 周月 | Heat flux and impurity compressing by deuterium gas puffing and pumping on HL-2M conventional diverter |
| 2-76 | 设计中心 | 杜海龙 | A new concept advanced diverter manipulating Ex B drift to improve Detachment for Both Bt directions on HL 2M |
| 2-77 | 设计中心 | 封范 | Mechanical property and microstructure of plastically deformed W-Y2O3 alloy |
| 2-78 | 102 | 张凯 | Vacuum ultraviolet spectroscopy for impurity measurement during the initial discharge stage in HL-2M tokamak |