

6th November 2017**17:00-19:00**

- 6PT1 K. Fukumoto (Univ. of Fukui, Japan) Microstructure of Fatigue-Tested F82H Steel under Multiaxial Loadings
- 6PT2 J. Hoffmann (KIT, Germany) EUROFER Improvement by Optimized Chemical Compositions
- 6PT3 T. Miyazawa (QST, Japan) Evaluation of Fracture Resistance of Welded Joints of F82H By the Local Approach
- 6PT4 K. Kawauchi (Osaka Univ., Japan) Evaluation of Cold Crack Susceptibility in Multi-Pass Welds of Reduced Activation Ferritic/Martensitic Steel F82H Based on Numerical Simulation of Hydrogen Distribution in Welds
- 6PT5 R. Kiyoku (Osaka Univ., Japan) Evaluation of Hot Crack Susceptibility in Multi-Pass Welds of Reduced Activation Ferritic/Martensitic Steel F82H using Longitudinal V restraint Test
- 6PT6 H. Kim (Changwon National Univ., Republic of Korea) Microstructure Stability and Creep Properties of Ti Added RAFM Steel
- 6PT7 H. Sakasegawa (QST, Japan) The Development of F-82H BA Heats for Large Scale Melting toward DEMO
- 6PT8 D. Hoelzer (ORNL, USA) Development of Phase Transformable ODS Fe-10Cr Ferritic Alloys for Fusion Reactors
- 6PT9 Y. Li (Institute of Metal Research, CAS, China) Investigation on Creep Behavior and Fracture Mechanisms of 12Cr Oxide Dispersion Strengthening Ferritic Steels
- 6PT10 Y. Fang (Peking Univ., China) A Promising Radiation Tolerant and Thermally Stable Nanocrystalline Austenitic 304L Stainless Steel for Advanced Reactors
- 6PT11 J. Delgado (Universidad Carlos III de Madrid, Spain) Microstructure and Mechanical Characterization of Two ODS Ferritic Steels Subjected to Hot Cross Rolling
- 6PT12 C. Zhang (Institute of Modern Physics, CAS, China) Response of ODS Ferritic Steels to Irradiation with High-Energy Heavy Ions
- 6PT13 D. Morrall (Kyoto Univ., Japan) Tensile Properties and Microstructure of Zr-Added Austenitic Stainless Steel
- 6PT15 J. Park (Muroran Inst. of Tech., Japan) Oxidation Resistance of Ni-TiC/SiC Composites with CVD-SiC Environmental Barrier Coat
- 6PT16 L. Zhang (Institute of Modern Physics, CAS, China) Degradation Mechanisms of Mechanical Properties of SiC Fiber Irradiated by Swift Heavy Ions
- 6PT17 R. Lo Frano (DICI- Univ. of Pisa, Italy) Manufacturing Technology and Properties of Ceramic Pebbles for Breeding Blanket
- 6PT18 J. Kim (Muroran Inst. of Tech., Japan) Inter-Laminar Strength of Ni-TiC/SiC Composites with Various Fiber Reinforced Architectures
- 6PT19 J. Qiu (Univ. of Tennessee, USA) Investigation of He Retention in W Through a Combined Neutron Depth Profiling Method and Cluster Dynamics Model Simulation
- 6PT20 T. Hinoki (Kyoto Univ., Japan) Development of Silicon Carbide Fiber Reinforced Tungsten Composites

- 6PT21 A. V. Muller (IPP, Germany) The Effects of Heat Treatment on the Mechanical Properties of High-Strength Tungsten Fibres for Plasma-Facing Component Composite Material Applications
- 6PT22 S. Nogami (Tohoku Univ., Japan) Development of Doped-Tungsten Laminate by Solid State Diffusion Bonding
- 6PT23 Y. Lian (SWIP, China) Effect of High-Energy-Rate Forging on Microstructure and Mechanical Properties of W-Y₂O₃ Composites
- 6PT24 M. Fukuda (Tohoku Univ., Japan) Formation of Rhenium Clusters in Tungsten-Rhenium Alloys during Early Stages of Neutron Irradiation in JOYO
- 6PT26 K. Park (Mechanical Engineering, Republic of Korea) Characterization of Monolithic Tungsten and Tungsten Fiber Reinforced Tungsten Matrix Composites
- 6PT28 T. Nagasaka (NIFS, Japan) Thermal Creep of NIFS-HEAT-2 Low-Activation High-Purity Vanadium Alloy
- 6PT29 T. Ishida (J-PARC Center, Japan) Study of the Radiation Damage Effect on Titanium Metastable Beta Alloy by High Intensity Proton Beam
- 6PT30 Y. Zhao (City Univ. of Hong Kong, China) Heterogeneous Precipitation Behavior and Stacking-Fault-Mediated Deformation in a CoCrNi-Based Medium-Entropy Alloy
- 6PT31 A. Kreter (FZJ, Germany) Surface Morphology and Fuel Retention of Tungsten Exposed to Mixed Species Plasma
- 6PT32 Y. Oya (Shizuoka Univ., Japan) Surface or Bulk He Existence Effect on Deuterium Retention in Fe Ion Damaged W
- 6PT33 K. Tokunaga (Kyushu Univ., Japan) Effects of Repeated High Heat Loading on Surface Modification of Tungsten and Tungsten Alloys
- 6PT34 S. Blondel (Univ. of Tennessee, USA) Modeling Bubble Bursting with Cluster Dynamics in Helium Irradiated Tungsten at Experimentally Relevant Flux
- 6PT35 A. Sabau (ORNL, USA) High-Heat Flux Testing of Tungsten and Tungsten-SiC Using Plasma-Arc Lamps
- 6PT36 A. Bakaev (SCK-CEN, Belgium) Ab Initio Study of the Interaction of H-He Clusters with Dislocations in Tungsten
- 6PT37 D. Liu (Dalian Nationalities Univ., China) The Formation of Metastable W Surface Layer During Low-Energy H/He Irradiation
- 6PT38 R. Kurtz (PNNL, USA) Tailoring the Microstructure of Ductile-Phase Toughened W-Ni-Fe Composites for Optimal Fracture Toughness: Experiment and Model
- 6PT39 W. Liu (HUST, China) Microstructure and Mechanical Properties of W-Si Composites by Spark Plasma Sintering
- 6PT40 I. Tazhibayeva (Inst. of Atomic Energy NNC RK, Kazakhstan) Study of Deuterium Reversible Absorption by Lithium CPS and Determination of Deuterium Recycling Coefficient
- 6PT41 E. Gao (UCLA, USA) The Influence of Low Energy Plasma Exposure on Helium Bubble Formation in Micro-Architected Tungsten Surfaces
- 6PT42 Y. Yang (ORNL, USA) Advanced Copper Alloys from Computational Thermodynamics and Microstructural

Screening

- 6PT43 S. Okuno (Kyoto Univ., Japan) Damaging Process of High Heat Loaded Cu-Tube Installed W-Monoblock
- 6PT44 S. M. S. Aghamiri (Hokkaido Univ., Japan) Development of ODS Copper by Control of Microstructure for Fusion Material Application
- 6PT45 A. Suvorova (NIKIET, Russia) Heat Treatment Effects on the Microstructure and Properties of Cu-Cr-Zr Alloy Used for the ITER Blanket Components
- 6PT46 R. Kasada (Kyoto Univ., Japan) Electronic Structure of the Beryllides
- 6PT47 K. Mukai (KIT, Germany) Corrosion Characteristics of Reduced Activation Ferritic-Martensitic Steel EUROFER by Li_2TiO_3 with Excess Li
- 6PT48 Y. Furuyama (Kobe Univ., Japan) Effect of Oxygen Content on CO_2 Absorption Characteristics of Li_2TiO_3
- 6PT49 S. Heuer (FZJ, Germany) Properties of W/Fe Composites Produced by Electro Discharge Sintering for Functionally Graded Materials
- 6PT50 T. Tanaka (NIFS, Japan) Fabrication of Thin-Film Sensor Samples for Examination of Property Changes under Ion Beam Irradiation
- 6PT51 K. Fudemae (The Univ. of Tokyo, Japan) Computer Simulation about Diffusion of Li and O in F82H
- 6PT52 I. Orlovskiy (Kurchatov Insti., Russia) Radiation Hardness of Flint Glasses for Optical Diagnostics in ITER
- 6PT55 E. Wakai (JAEA, Japan) Thermo-Structural Analysis and Design of Target Assembly of High Intensity Neutron Source
- 6PT56 S. Kwon (QST, Japan) Investigation on A-FNS Neutron Spectrum Monitor System
- 6PT57 Y. Hirata (QST, Japan) Development Status of Control System toward RFQ Commissioning of IFMIF/EVEDA Prototype Accelerator
- 6PT58 A. Cackett (CCFE, UK) Spherical Indentation and the Size Effect in Copper-Chromium-Zirconium
- 6PT59 X. Liu (SWIP, China) R&D of Divertor Component Design and Manufacture for HI-2M Tokamak
- 6PT60 R. Kobayashi (Kyoto Univ., Japan) Evaluation of Impact Properties of Reactor Pressure Vessel Steel Heat-affected by Cladding Procedure
- 6PT61 M. Zhou (Beihang Univ., China) Understanding and Design Tungsten/Ceramic Interfaces for Fusion Energy via High-throughput Theoretical Calculations
- 6PT62 A. Sand (Univ. of Helsinki, Finland) Effects of Cascade Overlap on Defect Morphology in Fusion Neutron-Irradiated Tungsten
- 6PT63 M. Roldan (CIEMAT, Spain) Dislocation Loops Analysis on EFDA Pure Fe Produced by Self-Ion Irradiation at 20 MeV to Avoid Surface Effect
- 6PT64 C. Li (Bredesen Center, USA) Evaluation of the Radiation Effects in a Co-Free High Entropy Alloy
- 6PT65 J. Byggmatar (Univ. of Helsinki, Finland) Thermal Activation of Edge Dislocation Unpinning from Voids in Iron
- 6PT67 S. Goto (Hokkaido Univ., Japan) Effect of Heat Load on Microstructural Development in Irradiated Low Alloy Steels

- 6PT68 H. Xu (The Univ. of Tennessee, USA) Interaction of Collision Cascade with Dislocations in bcc Iron and fcc Nickel
- 6PT69 P. Song (Kyoto Univ., Japan) Helium-Bubbles Evolution in ODS Ferritic Steels with Different Oxide Particles
- 6PT70 J. Kai (The City Univ. of Hong Kong, Hong Kong) Atomic Configuration of Point Defect Clusters in Ion-Irradiated Silicon Carbide
- 6PT71 S. Chen (Hokkaido Univ., Japan) Post-Irradiation Annealing Behavior of Helium Irradiated Ferritic-Martensitic ODS steel
- 6PT72 R. Suzue (Tohoku Univ., Japan) Structural Destabilization of $M_{23}C_6$ single crystal under electron irradiation
- 6PT73 J. Fikar (Institute of Physics of Materials, Czech Republic) Interaction of Prismatic Dislocation Loops with Free Surfaces
- 6PT74 S. Huang (DUT, China) Cr and He Effects on Swelling Behavior in Self-Ion Irradiated CLF-1 and Fe-Cr Model Alloys
- 6PT75 S. Jiang (Qilu Univ. of Tech., China) Effects of He-H Synergy on Irradiation Hardening of V-4Cr-4Ti at Lower Temperature
- 6PT76 T. Yang (Univ. of Tennessee, USA) Irradiation Responses of a High Entropy Alloy $Al_{0.1}CoCrFeNi$ at Elevated Temperatures
- 6PT77 B. Wang (Institute of High Energy Physics, CAS, China) Thermal Evolution of Micro-Defects in ODS Steels
- 6PT79 T. Miura (Institute of Nuclear Safety System, Inc., Japan) Micro-Tensile Testing of Reduced-Activation Ferritic Steel F82H Irradiated with Fe And He Ions
- 6PT80 M. Cui (Institute of Modern Physics, CAS, China) He Ion Irradiation Induced Hardening in ZrC Dispersion Strengthened Tungsten
- 6PT81 T. Onitsuka (Univ. of Fukui, Japan) Improving the Molecular Dynamics Simulations of the Dislocation-Void Interaction in BCC Iron
- 6PT82 K. Wang (ORNL, USA) Flux, Fluence, and Microstructure Effects on Helium Disposition in Tungsten PFCs
- 6PT83 K. Xu (Beihang Univ., China) New Understanding of Loop-Punching Mechanism with the Helium Bubble Growth in Tungsten
- 6PT84 K. Omori (Osaka Univ., Japan) DFT Calculations of Energy and Stress Tensor of Agglomerated Helium in the Period 6 Elements
- 6PT85 T. Koyanagi (ORNL, USA) Using Raman Microscopy to Predict Tritium Retention in Neutron Irradiated Graphite
- 6PT87 X. Cao (Institute of High Energy Physics, CAS, China) Helium with He-Defect Composite Structure in 304 Stainless Steels Investigated by CDB of Slow Positron Beam
- 6PT88 R. Stoller (ORNL (retired), USA) Mechanisms of Helium Effects under Irradiation
- 6PT89 K. Field (ORNL, USA) Advanced Methods for Evaluating Mechanical Performance of Neutron Irradiated Alloys
- 6PT90 R. Shimura (Kyoto Univ., Japan) Nanoindentation Hardness and Micro-Pillar Compression Tests of Ion-Irradiated Single Crystal Fe (110)

- 6PT91 S. Simakov (KIT, Germany) Iron NRT- and Arc-Displacement Cross Sections
- 6PT92 D. Nguyen-Manh (CCFE, UK) Point Defect Properties of Fe-Cr-Ni Ternary Alloys Predicted by Ab-Initio Calculations
- 6PT93 J. Hao (Beihang Univ., China) Interaction Between Hydrogen Clusters and Point Defects in W: An Atomistic Simulation
- 6PT94 F. Mota (CIEMAT, Spain) Methodology for the Intercomparison of Irradiation Experiments
- 6PT95 T. Nakasuji (Kyoto Univ., Japan) Reaction Rate Theory Based Analysis of Microstructural Evolution in Fusion Structural Materials during Irradiation
- 6PT96 J. Shi (USTC, China) Molecular Dynamics Study on Barrier Strength Factor of Irradiation induced Defects
- 6PT97 J. Shi (Hokkaido Univ., Japan) Study on Synergistic Effects of H and He in α -Fe
- 6PT99 K. Katayama (Kyushu Univ., Japan) Evaluation of Hydrogen Permeation Rate through Zirconium for Tritium Production using High-Temperature Gas-Cooled Reactor for Fusion Reactors
- 6PT100 M. Matsuyama (Univ. of Toyama, Japan) Effects of Plasma Exposure on Tritium Retention in Fusion Reactor Materials
- 6PT101 T. Hyuga (Kyushu Univ., Japan) Comparison of Release Behaviors of Water Vapor and Tritiated Water Vapor from Soil Particles by Heating
- 6PT102 P. Doyle (Univ. Tennessee, USA) Aqueous Corrosion of SiC at High Temperature and Pressure
- 6PT103 M. Monge (Universidad Carlos III de Madrid, Spain) Effect of Vanadium Additions on the Oxidation Behaviour of Tungsten
- 6PT104 H. Liu (ASIPP, China) Effect of Irradiation on Hydrogen Isotope Permeation Behavior of Al₂O₃ Coating
- 6PT105 B. Kuteev (NRC Kurchatov Institute, Russia) Current Status and Highlights for Developing Fusion Nuclear Energy, Technology and Materials In Russia
- 6PT106 G. Luo (ASIPP, China) R & D of Strain Monitoring System for EAST Tungsten Divertor
- 6PT107 L. Zhang (USTB, China) Nano-Micro-Macro Correlation of Radiation-Hardening in Neutron-Irradiated Ferritic Materials
- 6PT108 H. Yao (Kyoto Univ., Japan) Development of ODS-Cu using a Water-Cooled High Energy Ball Mill

7th November 2017

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- 7PT1 H. Kishimoto (Muroran Inst. of Tech., Japan) Oxide Formation Procedure during the HIP Process of F82H Steel Joints
- 7PT2 G. Xu (INEST, China) Effect of Thermal Aging on the Microstructure and Mechanical Property of CLAM Steel
- 7PT3 X. Zhai (INEST, China) Creep-Fatigue Crack Growth Mechanism of CLAM Steel at 550 °C under Vacuum Condition
- 7PT4 P. Fernandez (P.Fernandez, Spain) Precipitate Phases Formation on New 9%Cr Advanced Steels for Fusion

Reactors

- 7PT5 T. Hirose (QST, Japan) Applicability of Conventional Weld Technologies on Fusion Blanket Fabrication using Reduced Activation Ferritic/Martensitic Steel
- 7PT6 C. Lee (Korea Inst. of Materials Science, Republic of Korea) Effect of Ti Addition on Microstructures and Mechanical Properties in RAFM Steels
- 7PT7 D. Edwards (PNNL, USA) Comparison of Irradiation Induced Microstructural Changes in NFA 14YWT and ODS 14YW
- 7PT8 Y. Osetskiy (ORNL, USA) Atomic-Scale Assessment of the Role of Edge Dislocations in Inclusion Strengthened Iron
- 7PT9 N. Ordas (Ceit-IK4, Spain) ODS Ferritic Steels Obtained from Gas Atomized Powders through the STARS Processing Route: Reactive Synthesis as an Alternative to Mechanical Alloying
- 7PT10 L. Song (INEST, China) A Newly Developed Y-Si-O Nanoparticles Strengthened 9Cr Steel : Microstructure, Mechanical Properties and Corrosion Behavior in Liquid Metal
- 7PT11 J. Shen (The Univ. of Tokyo, Japan) Effect of Pre-Deformation on Microstructural Evolution of 12Cr ODS Steel Under High-Temperature Annealing
- 7PT12 k. Toyota (Hokkaido Univ., Japan) Microstructural Evolution in FeCrAl Alloys under Irradiation
- 7PT13 Y. Katoh (ORNL, USA) Potential of Ultra-High Temperature Ceramics as Fusion In-Vessel Component Materials
- 7PT14 B. Tsuchiya (Meijo Univ., Japan) Radiation-Induced Modification of Mechanical Properties of Silicon Carbides by Hydrogen and Helium Ion Irradiations
- 7PT15 Y. Yamamoto (Kansai Univ., Japan) Measurements of Deuterium Permeation Coefficient through Silicon Carbide at High Temperature
- 7PT16 J. Yagi (NIFS, Japan) Compatibility of Oxide Ceramics with Lithium-Sodium Liquid Alloy
- 7PT17 J. Gwak (Dong-Eui Univ., Republic of Korea) Oxidation Characteristic of Liquid Phase Sintered SiC and SiCf/SiC
- 7PT18 J. Yu (Muroran Inst. of Tech., Japan) Deformation and Fracture Characterization of NITE-SiC/SiC Composites with Circular Shape
- 7PT19 K. Tokunaga (Kyushu Univ., Japan) Mechanical Properties of ITER Grade Tungsten in the Stress-Relieved and Recrystallized States
- 7PT20 H. Gietl (IPP, Germany) Fracture Toughness for Tungsten Fibre-Reinforced Tungsten Composites utilising Different Estimation Techniques
- 7PT21 V. Nikolic (Erich Schmid Inst. of the Austrian Academy of Sciences, Austria) Fracture Toughness Evaluation and Microstructural Characterization of Drawn Tungsten Wires
- 7PT22 T. Tsuru (JAEA, Japan) First-Principles Calculations of Interaction between 5d Solutes and Dislocation in Tungsten
- 7PT23 K. Tsuchida (Tohoku Univ., Japan) Recrystallization Behavior of Hot Rolled Pure Tungsten and Its Alloy Plates

during High Temperature Annealing

- 7PT24 M. Fukuda (Tohoku Univ., Japan) Thermal Properties of Pure Tungsten and Tungsten Alloys
- 7PT25 D. Bachurina (MEPhI, Russia) High Temperature Brazing of Coaxial Joint W/Cu/CuCrZr for ITER Divertor with the Use of STEMET 1101M Filler Metal
- 7PT26 H. Park (Dong-Eui Univ., Republic of Korea) Fabrication Characterization of W and W/W Composites by Hot-press
- 7PT27 M. Richardson (UKAEA, UK) An Investigation of the Mechanical Performance of Conventional and Additively Manufactured Vanadium
- 7PT28 P. Zheng (SWIP, China) Synchronous Coarsening Behaviors of Nano-Particles and Grains in V-4Cr-4Ti
- 7PT29 A. Gandy (Univ. of Sheffield, UK) Microstructure, Mechanical Properties and Thermal Stability of High Entropy Alloys for Fusion
- 7PT30 G. Pintsuk (FZJ, Germany) Characterization of Powder Injection Molded and Spark Plasma Sintered Tungsten as Plasma Facing Materials for DEMO
- 7PT31 B. Wielunska (IPP, Germany) Radiation Damage and Deuterium Retention in Tungsten
- 7PT32 N. Ashikawa (NIFS, Japan) Hydrogen Isotope Retention on Coated W with Microcrystalline Structures after Plasma Exposures in KSTAR
- 7PT33 M. Wirtz (FZJ, Germany) Laser and Electron Beam Exposure of Helium Induced Nanostructures on Tungsten
- 7PT34 T. Yang (Univ. of Tennessee, USA) Plasma Exposure Behavior of Molybdenum and Graphite in the EAST Tokamak
- 7PT36 E. Lang (Univ. of Illinois at Urbana Champaign, USA) Deciphering Fuel Retention and Bulk Damage Effects on PMI of Dispersion-Strengthened Tungsten Alloys
- 7PT39 Z. Chen (Hokkaido Univ., Japan) Development of F82H Composite Materials with a High Thermal Conductivity
- 7PT41 H. Zhou (Beihang Univ., China) Large Plastic Deformation Blistering and Helium Retention in 5% Tantalum Doped Tungsten under 60 KeV Helium Ions Implantation
- 7PT42 H. Greuner (IPP, Germany) Strategy and Results of High Heat Flux Testing of European DEMO Divertor Mock-Ups
- 7PT43 D. Hamaguchi (QST, Japan) Application of Friction Stir Processing on CuCrZr alloy for Mechanically Strengthening and Better Irradiation Response
- 7PT44 B. Huang (NIFS, Japan) In-Situ Fabrication of Yttria Dispersed Copper Alloys through Reactive MA and HIP Process
- 7PT45 M. Tokitani (NIFS, Japan) Development of the W/ODS-Cu Divertor Mock-Up by Improved Brazing Technique
- 7PT46 J. Heuser (KIT, Germany) Advanced Ceramic Breeder Pebbles - Thermal Long-Term and Radiation Stability
- 7PT47 M. Miyamoto (Shimane Univ., Japan) Effects of Helium Irradiation on Hydrogen Retention Behavior in Beryllide Pebbles
- 7PT48 I. Kupriyanov (VNIINM, Russia) Investigation of Beryllium Pebbles Produced by Powder Metallurgy for HCPB

Breeding Blanket

- 7PT49 E. Leon-Gutierrez (CIEMAT, Spain) System Optimization and Previous Characterization of Optical Fibers for DTE2 JET Campaign In-Situ Measurements
- 7PT50 K. Zhang (KIT, Germany) EUROFER97 Ratcheting Behavior at 550°C and its Modelling
- 7PT51 J. Izumino (Kyushu Univ., Japan) Measurement of Hydrogen Solubility and Diffusivity in Zr Particles for Tritium Production in a High-Temperature Gas-Cooled Reactor
- 7PT53 M. Saito (QST, Japan) Radiation-Hard AC Servomotor and O-ring Development for the ITER Blanket Remote Handling System
- 7PT54 J. Chen (SWIP, China) The CuCrZr Alloy Properties for ITER EHF FW Panel using a HIP Manufacturing Route
- 7PT55 M. Nakamura (QST, Japan) Impact of the Beam Injection Momentum on the Free Surface of the Liquid Lithium Target of Advanced Fusion Neutron Source (A-FNS)
- 7PT56 T. Shinya (QST, Japan) Status of RFQ Linac Installation and Commissioning in Rokkasho for the Linear IFMIF Prototype Accelerator
- 7PT57 A. Kasugai (QST, Japan) Progress of Linear IFMIF Prototype Accelerator (LIPAc) in Rokkasho
- 7PT58 P. Mulligan (ORNL, USA) An F82H Steel Pressurized Tube Creep Capsule for Irradiation in HFIR
- 7PT59 H. Sakasegawa (QST, Japan) Strain Evaluation using a Non-Contact Deformation Measurement System in Tensile Tests of Irradiated F-82H Steel
- 7PT60 C. Kessel (PPPL, USA) Exploring Liquid Metal Plasma Facing Components for the Fusion Nuclear Science Facility
- 7PT61 X. Shu (Beihang Univ., China) Diffusion Behavior of Hydrogen at Tungsten Surface
- 7PT62 E. Aydogan (LANL, USA) RADIATION Effects on HT9 Tempered Martensitic Steels as a Function of Initial Dislocation Density
- 7PT63 H. Lee (Osaka Univ., Japan) Crystal Orientation Dependence of Displacement Damage in Tungsten (100) and (110) Probed using In-Situ High Voltage Electron Microscopy
- 7PT64 F. Granberg (Univ. of Helsinki, Finland) Irradiation Damage in Equiatomic Multicomponent Alloys
- 7PT65 Y. Yamamoto (ORNL, USA) 54Fe Isotope Containing RAFM Steels Produced for Accelerated Helium Production in HFIR
- 7PT66 L. Bukonte (Univ. of Helsinki, Finland) Simulation of H Trapping in Tungsten as a Function of H Flux and Temperature
- 7PT67 Y. Du (USTB, China) Cr Segregation Induced by Electron Irradiation in Fe-Cr Model Alloy Pre-Implanted with H⁺
- 7PT69 H. Matsui (None, Japan) Large Swelling of Irradiated Vanadium Alloys, Revisited
- 7PT70 L. Wang (Beihang Univ., Univ. of Michigan, USA) Synergistic Effects of Hydrogen and Atomic-displacement Cascades on Defect Production and Dislocation Loops in Tungsten
- 7PT71 D. Dasgupta (Univ. of Tennessee, USA) Modeling of Fuzz Formation in Helium-Ion-Irradiated Tungsten

- 7PT72 S. Oh (Univ. of Tokyo, Japan) Investigation of Oxide Particle Instability in 12Cr-ODS Steel under High Energy Electron Irradiation at Elevated Temperature
- 7PT73 S. Kano (The Univ. of Tokyo, Japan) Instability of Carbides in F82H Steel under High Temperature Electron and Ion Irradiation Conditions
- 7PT74 Y. Kimoto (Kagoshima Univ., Japan) Diffusion and Desorption Behavior of Hydrogen in Iron Containing Large Voids
- 7PT75 Y. Suzuki (Hokkaido Univ., Japan) Microstructure Change of Duplex Stainless Steels after Thermal Aging and Electron Irradiation
- 7PT76 Y. Kamada (Iwate Univ., Japan) Microstructures, Hardness and Magnetic Hysteresis Properties in Isochronal Aged F82H Steels
- 7PT77 S. Rogozhkin (Kurchatov Inst., Russia) Atom Probe Tomography Study of EUROFER 97 Reconstruction under Irradiation
- 7PT78 X. Chen (ORNL, USA) Fracture Toughness of F82H Steel after High Dose Irradiation
- 7PT80 C. Shin (Myongji Univ., Republic of Korea) Effect of Self-Ion Irradiation in Micro-Pillar Deformation of Twinning-Induced Plasticity Steel
- 7PT81 Y. Matsukawa (Tohoku Univ., Japan) Effects of Crystal Structure of Precipitates on Their Obstacle Strength in Precipitation Hardening
- 7PT82 H. Fujita (Shizuoka Univ., Japan) Direct Measurement of Gamma-Ray Irradiation Effect on Deuterium Permeation through Reduced Activation Ferritic Steel and Erbium Oxide Coating
- 7PT83 M. Klimenkov (KIT, Germany) Microstructural Evaluation of Beryllium after Neutron Irradiation up to 6000 appm Helium Production
- 7PT84 N. Yamashita (Osaka Univ., Japan) Surface Morphology Changes of Silicon Carbide by Helium Plasma Irradiation
- 7PT85 Y. Watanabe (QST, Japan) Hydrogen and Helium Behavior in Primary Precipitate of F82H steel: Atomistic Calculation Based on the Density Functional Theory
- 7PT86 M. Staltsov (Moscow Engineering Physics Institute, Russia) Peculiarities of Helium Porosity Evolution in the Ferritic-Martensitic Steels Produced by Spark Plasma Sintering
- 7PT87 X. Cao (Institute of High Energy Physics, CAS, China) Detection of Helium in Irradiated 304 Stainless Steels by Coincidence Doppler Broadening of Positron Annihilation
- 7PT88 T. Koyanagi (ORNL, USA) Characterization of Atomic Scale Defects in Neutron Irradiated Silicon Carbide
- 7PT89 E. Wakai (JAEA, Japan) Effects of Helium Production, Displacement Damage, and Annealing on Mechanical Properties and Microstructures in Austenitic Stainless Steels and Ferritic Steels
- 7PT90 C. Taylor (INL, USA) Deuterium Depth Distribution in Tungsten under Various Implantation Conditions
- 7PT92 S. Ryabtsev (MEPhI, Russia) Deuterium Retention in RAFM Steels under Ion Irradiation
- 7PT93 L. Peng (USTC, China) The Impact of Irradiation Damage on Lifetime of CFETR First Wall Structure Materials
- 7PT94 W. Ding (INEST, China) A First-Principles Study on the Dissolution Corrosion Capabilities of Liquid

Lead-Lithium on RAFM Steel

- 7PT96 M. Zheng (INEST, China) Effects of the Nucleation and Growth of Defect Clusters on Cavity Swelling in RAFM Steels
- 7PT97 G. Samolyuk (ORNL, USA) Thermodynamic Approach to Defect Equilibrium Distribution at the Interface: Application to the Y_2O_3 -Fe System
- 7PT99 Y. Xu (National Research Nuclear Univ., China) Effects of High-Energy C Ions Irradiation on the D Retention Behavior in V-5Cr-5Ti
- 7PT101 Q. Huang (INEST, China) Corrosion Behavior of CLAM Steel in Liquid PbLi
- 7PT102 Y. Huang (Kyoto Univ., Taiwan) SCC Behavior of SUS316L and SUS310S in Fusion Relevant Environments
- 7PT103 H. Jiang (Hefei Univ. of Tech., China) Erosion-Corrosion Behavior of CuCrZr Alloy in Flowing Nanofluids
- 7PT104 M. Matsunaga (Shizuoka Univ., Japan) Lithium-Lead Corrosion Behavior of Erbium Oxide and Zirconium Oxide Coatings Fabricated by Metal-Organic Decomposition
- 7PT106 S. Yuzawa (Kyoto Univ., Japan) Welding of Accident Tolerant FeCrAl-ODS Fuel Claddings for application to LWRs
- 7PT107 S. Ohnuki (USTB, China) Role of He-V Complexes on Radiation-Hardening in Austenitic Steel
- 7PT108 J. Zhan (USTC, China) Study of Nucleation and Growth of Helium Bubble in A-Iron Under Irradiation
- 7PT109 M. Qu (Peking Univ., China) Crack Damage on Pure Tungsten Irradiated by Intense Pulse Electron Beam

8th November 2017

16:40-18:40

- 8PT1 Y. Zhao (INEST, China) Numerical Simulation of Creep Crack Growth Behavior in CLAM Steel
- 8PT2 C. Cristalli (ENEA, Italy) Development of Innovative Materials and Thermal Treatments for DEMO Water Cooled Blanket
- 8PT4 S. Nogami (Tohoku Univ., Japan) Effect of Displacement Damage and Helium on Low Cycle Fatigue Life of Ferritic/Martensitic Steel
- 8PT5 V. Chernov (VNIINM, Russia) Influence of the High Temperature Thermo-Mechanical Treatment on the Microstructure and the Mechanical Properties of the Reduced Activation 12%-Cr Ferritic-Martensitic Steel RUSFER-EK-181
- 8PT6 C. Shin (Myongji Univ., Republic of Korea) Radiation Hardening and Swelling in Ti-Bearing Reduced Activation Ferritic-Martensitic Steel
- 8PT7 L. Pilloni (ENEA, Italy) Grain Size Reduction Strategies on EUROFER
- 8PT8 W. Han (USTB, China) Dissimilar Friction Stir Welding Between ODS Ferritic Steel and RAFM Steel F82H
- 8PT9 J. Stubbins (Univ. of Illinois, USA) Characteristics of Austenitic ODS Alloys for Fusion Applications
- 8PT10 J. Zhang (Institute of Metal Research CAS, China) Study of Preparation and Characterization of Nanostructured Ti-Y-O Phase

- 8PT12 K. Kondo (JAEA, Japan) Ion Irradiation Effects on FeCrAl-ODS Ferritic Steel
- 8PT13 T. Nozawa (QST, Japan) High Dose Irradiation Effects on Silicon Carbide Composites with Varied Fiber/Matrix Interfaces at Intermediate Temperatures
- 8PT14 J. Chen (Paul Scherrer Institute, Switzerland) In-Beam Creep of SiCf/SiC Minicomposite under Uniaxial Tensile Loading
- 8PT15 D. Cruz (CIEMAT, Spain) Fabrication Route Effect on Dielectric Properties of Alumina Ceramics for Fusion Reactor Applications
- 8PT16 A. Leide (Univ. of Oxford, UK) Reaction-Bonded Silicon Carbide for Fusion Applications
- 8PT17 N. Nakazato (Muroran Inst. of Tech., Japan) Brazing Techniques for NITE-SiC/SiC Composite and their Irradiation Effects
- 8PT18 S. Makimura (KEK, Japan) Feasibility Study for NITE SiC/SiC as Target Material at High-Power Proton Accelerator
- 8PT19 H. Ryu (KAIST, Republic of Korea) Tungsten Mesh Reinforced High Entropy Alloy Composites for Fusion Plasma Facing Materials
- 8PT20 S. Novak (Jozef Stefan Institute, Slovenia) Tungsten Composites with W₂C Reinforcement
- 8PT21 U. Ciucani (DTU, Denmark) Thermal Stability of Differently Rolled, Thin Tungsten Plates in the Temperature Range 1300-1400 °C
- 8PT22 M. Ferraris (Politecnico di Torino, Italy) Co-Sputtered W / Fe Interlayers for Joining Tungsten to Steel
- 8PT23 T. Hattori (Tohoku Univ., Japan) Effect of High Temperature Annealing on Tensile Properties of W and K-Doped W Alloys
- 8PT25 M. Vilemova (Institute of Plasma Physics, Czech Republic) Microstructure and Thermal Stability of W-Cr Alloys Prepared by Spark Plasma Sintering
- 8PT26 Z. Xie (Institute of Solid State Physics, CAS, China) Fabrication and Thermal Stabilities of an Ultra-Fine-Grained Tungsten Alloy as First Wall Materials
- 8PT27 H. Serizawa (Osaka Univ., Japan) Influence of Friction Stir Welding Conditions on Joinability of V-Alloy/SUS316L Dissimilar Joint
- 8PT28 T. Yan (Inst. of Modern Physics, CAS, China) Irradiation Hardening of V-4Cr-4Ti and V-5Cr-5Ti Alloys due to Helium Implantation and Displacement Damage
- 8PT29 H. Noto (NIFS, Japan) Effect of Oxygen Concentration on Mechanical Properties of Oxide Dispersion-Strengthened Cu Alloy
- 8PT30 C. Parish (ORNL, USA) Defect Analysis in Plasma-Materials Interactions
- 8PT31 J. Schmitz (FZJ, Germany) Smart Alloys as Advanced Plasma-Facing Materials for Fusion Reactors
- 8PT32 D. Youchison (ORNL, USA) Development of a High-Conductivity Graphitic Foam Scraper Element for the Wendelstein 7-X Divertor
- 8PT33 L. Garrison (ORNL, USA) Interface Characteristics of Tungsten-Copper Laminate Composites after Neutron

Irradiation

- 8PT34 B. Unterberg (FZJ, Germany) Plasma Exposure of Tungsten Produced via Powder Injection Molding in The Linear Plasma Device PSI-2
- 8PT35 H. Han (Seoul National Univ., Republic of Korea) Fabrication of Sintered Tungsten by Spark Plasma Sintering and Evaluation of Mechanical Stability
- 8PT36 M. Rasinski (FZJ, Germany) Recrystallization of Tungsten Exposed to Deuterium Plasma with Different Seeded Impurities
- 8PT37 T. Murakami (Kyoto Univ., Japan) Hydrogen Potential Energy in a Plasma-Induced Deposited Layer of QUEST
- 8PT38 Q. Xu (Kyoto Univ., Japan) Thermal Stability of W-TiC Alloy and Microstructural Evolution under Helium Irradiation
- 8PT39 L. Luo (Hefei Univ. of Tech., China) Effect of TaC Particles on the Properties of W-TaC Materials under ELMs-Like Thermal Shock Condition
- 8PT40 Y. Asakura (Muroran Inst. of Tech., Japan) Thermal Property Modification of Tungsten Coated NITE SiC/SiC Composite Fabricated by Sintering Method.
- 8PT41 J. Yan (Beihang Univ., China) Behavior of Sputter-Deposited Tungsten-Chromium Alloy Film under 60keV Helium Ion Implantation
- 8PT42 P. Shi (Univ. of Toyama, Japan) Deuterium Retention in CuCrZr Alloy Investigated using Thermal Desorption Spectroscopy and Atom Probe Tomography
- 8PT43 A. Munoz (Universidad Carlos III de Madrid, Spain) Processing, Microstructure and Mechanical Properties of Copper Reinforced with Yttrium-Enriched Particles Introduced from Process Control Agent
- 8PT44 K. Ibano (Osaka Univ., Japan) Surface Morphology of Tungsten-F82H Material after High-Heat Flux Testing using Plasma-Arc Lamps
- 8PT45 N. Ordas (CEIT-IK4, Spain) Oxidation Behaviour of W-Cr-Y Alloys with Different Y Contents
- 8PT46 J. Kim (QST, Japan) Effect of Grain Size on the Thermal Stability of Beryllide as Advanced Neutron Multipliers
- 8PT47 Y. Park (NFRI, Republic of Korea) Fabrication of Li_2TiO_3 Pebbles for Tritium Breeding Material using Nano-Powder
- 8PT48 P. Kurinskiy (QST, Japan) Effect of Plasma Activation on Sinterability and Impurity Content of Plasma-Sintered Beryllium
- 8PT49 A. Klix (KIT, Germany) Testing of a Multi-Material Activation Probe for the EU ITER TBM Neutron Activation System under DT Neutron Irradiation
- 8PT50 J. Yoon (KAERI, Republic of Korea) Development of TIG Welding Technology and Mechanical Properties of Joints Of ARAA Plates and Dissimilar Joint of ARAA and SS316L
- 8PT51 F. Wan (USTB, China) Change of Gas Bubbles in Aluminum during Electron Irradiation
- 8PT52 F. Arbeiter (KIT, Germany) Material Irradiation Capabilities of IFMIF-DONES
- 8PT53 J. Di (HUST, China) Fabrication and Characterization of Cr_2O_3 - Al_2O_3 Double Coatings by Electrochemical

Technique as Tritium Permeation Barrier

- 8PT54 S. Ando (Osaka Univ., Japan) Non-Destructive Detection and Characterization of Surface-Breaking Cracks in Tungsten Monoblock using Laser Ultrasonics
- 8PT55 Y. Qiu (KIT, Germany) Optimization of the Deuteron Beam Profile for Neutron Irradiations in IFMIF-DONES
- 8PT56 M. Ohta (QST, Japan) Investigation of Mo-99 Radioisotope Production by D-Li Neutron Source
- 8PT57 U. Fischer (KIT, Germany) Computational Approach for ENS Neutronics Analyses
- 8PT58 M. Richardson (UKAEA, UK) Realisation of Small Punch Testing to Accelerate Materials Qualification for Fusion Applications
- 8PT59 T. Nagasaka (NIFS, Japan) Specimen Size Effect on the Tensile and Creep Properties of F82H Reduced-Activation Ferritic Steel at Elevated Temperature
- 8PT60 J. Aktaa (KIT, Germany) Creep-Fatigue Design Rules for Cyclic Softening Steels
- 8PT61 M. Roldan (CIEMAT, Spain) Cr Effect on Cavity Fate on FeCr Alloys Irradiated at Jannus (He+H+Fe)
- 8PT62 H. Zhou (Beihang Univ., China) Interstitial-Mediated Diffusion and Clustering for Transmutation Elements Re and Os Precipitation in W
- 8PT63 F. Granberg (Univ. of Helsinki, Finland) Irradiation Induced Defects in Massively Overlapping Cascades in Fe and FeCr
- 8PT64 J. Sun (Institute of Modern Physics, CAS, China) Effect of Helium on the Irradiation Damage Behaviour in Ti_3SiC_2
- 8PT66 Z. Bergstrom (Univ. of Tennessee, USA) Density Functional Theory Modeling of Hydrogen-Helium Interactions near a Tungsten (110) Surface
- 8PT67 S. Inoue (Hokkaido Univ., Japan) Microstructure Development in Irradiated 316L Model Alloys during Aging
- 8PT70 J. Haley (Univ. of Oxford, UK) A TEM Comparison of Radiation Damage in Neutron, Proton and Heavy Ion Irradiated FeCr
- 8PT71 M. Scepanovic (Universidad Carlos III de Madrid, Spain) Microstructural Stability of ODS Fe-14Cr(-2W-0.3Ti) Steels after Low Temperature Irradiation
- 8PT72 X. Zan (Hefei Univ. of Tech., China) Effects of Annealing Temperature on the Hardness and Microstructure Evolution of Warm-Rolled Pure Tungsten
- 8PT73 W. Setyawan (PNNL, USA) Development of Interatomic Potentials in Tungsten- Rhenium Systems
- 8PT75 H. Watanabe (Kyushu Univ., Japan) Direct Observation of Cu Clusters and Dislocation Loops by Cs-corrected STEM in Fe-0.6%Cu Alloy Irradiated in BR2
- 8PT76 R. Jia (NCATN, China) TEM Investigation of the Mechanism of Irradiation Hardening for Ion-Irradiated V-4Cr-4Ti and V-5Cr-5Ti Alloys
- 8PT77 B. Wang (Institute of High Energy Physics, CAS, China) The Evolution of Microstructural Defects in Ferritic/Martensitic-ODS Steels during Isochronal Annealing
- 8PT78 S. Knitel (Paul Scherrer Institute, Switzerland) Evolution of the Tensile Properties of EUROFER97 Tempered

Martensitic Steel after Spallation Irradiation at SINQ

- 8PT80 K. Doihara (The Univ. of Tokyo, Japan) MD Simulation to Investigate the Effect of Stacking Fault Energy on the Interaction between a Screw Dislocation and Spherical Void
- 8PT81 J. McDuffee (ORNL, USA) A Hydrogen-Charged Tungsten Irradiation Capsule for HFIR
- 8PT82 G. Lu (Beihang Univ., China) Electrophobic Interaction Induced Impurity/Helium Clustering in Metals
- 8PT83 D. Chen (City Univ. of Hong Kong, Hong Kong) Abnormal Helium Bubble Formation in FeCoNiCr High-Entropy Alloy
- 8PT84 A. Konno (Hokkaido Univ., Japan) Trapping Effect of He Cavity by Oxide Particles Dispersion Strengthened (ODS) Alloys
- 8PT85 M. Staltsov (MEPhI, Russia) Helium Porosity Development in Vanadium Ternary Alloys V-Ti-Cr, V-W-Zr AND V-W-Ta
- 8PT86 P. Zhang (Dalian Maritime Univ., China) Stability and Dissolution of Helium in Vacancy-Oxygen Complex in Vanadium
- 8PT87 F. Kong (Peking Univ., China) Study on Agglomeration Behavior of Helium Bubbles at High Temperature in Tungsten Materials
- 8PT88 X. Mao (INEST, China) An Innovative Diffraction Contrast Measurement of Interfacial Misfit Strain around Nano-Sized Semi-Coherent Particles in ODS Steel
- 8PT89 H. Schneider (KIT, Germany) High-Temperature Indentation on Neutron Irradiated RAFM Steel: A Step towards Multiple Use of Specimens and Post-Irradiation-Examination Facilities
- 8PT90 P. Warnicke (Paul Scherrer Institute, Switzerland) Atomic Scale Investigation of Irradiation-Induced Elements in Tungsten using Synchrotron X-rays
- 8PT92 G. Nandipati (PNNL, USA) Comparative Study of Radiation Damage in Tungsten due to Neutron Flux Corresponding to PKA Spectrum of 14 MeV-Neutron and HFIR
- 8PT93 C. Stihl (KIT, Germany) First Principles Study of Production and Recombination of Closely Correlated Frenkel Pairs in Beryllium
- 8PT94 Y. Xu (Institute of Solid State Physics, CAS, China) The Dissolution Corrosion of Liquid Lead and Lithium on Iron Surfaces: A First-Principles Study
- 8PT95 Y. Yang (Dalian Univ. of Tech., China) First-Principles Study on Helium Trapping and Diffusion at Grain Boundaries in Vanadium
- 8PT96 D. Sun (Dalian Univ. of Tech., China) Ab initio Investigation of Helium at Y_2O_3 Cluster in the ODS Steel
- 8PT97 B. Nguyen (PNNL, USA) Damage and Fracture Predictions for Ti_3SiC_2/SiC Joints Caused by Thermal Expansion and Irradiation-Induced Swelling
- 8PT100 M. Jiang (INEST, China) Hydrogen Diffusive Transport Parameters through CLAM Steel
- 8PT101 F. Klein (FZJ, Germany) Oxidation Resistance of Plasma-Facing Tungsten Alloys
- 8PT102 T. Hernández (CIEMAT, Spain) Design and Construction of a New PbLi Loop for Corrosion Experiments in

DCLL Conditions

- 8PT103 M. Nakajima (Tohoku Environmental Science Services Corporation, Japan) Effect of Flow Speed on High Temperature Water Corrosion of F82H
- 8PT104 W. Mao (The Univ. of Tokyo, Japan) Hydrogen Isotope Role in the Surface Phase Transition of Erbium Oxide
- 8PT105 J. Geringer (ORNL, USA) The MFE-RB-19J Experiment to Irradiate Tungsten and Steel in HFIR
- 8PT106 A. Hasegawa (Tohoku Univ. Japan) Study of Helium Effects on Mechanical Properties of Tungsten for Fusion Applications
- 8PT107 C. Henager (PNNL, USA) Tailoring the Microstructure of Ductile-Phase Toughened W-Ni-Fe Composites for Optimal Fracture Toughness: Experiment and Model
- 8PT108 T. Pornphatdetaudom (Tokyo Inst. of Tech., Japan) Microstructure and Physical Property Changes of Neutron Irradiated Aluminum Nitride and Those Recovery Behavior by Annealing
- 8PT109 D. Bachurina (MEPhI, Russia) Joining of Tungsten with Low-Activated Ferritic-Martensitic Steel and Vanadium Alloys for DEMO Reactor
- 8PT110 W. Obayashi (Muroran Inst. of Tech., Japan) Thermal Property of Micro-Porous SiC for FCI on DCLL Blanket in Fusion
- 8PT111 X. Zhang (Beihang Univ., China) Atomistic Simulations of Nanoscale Tungsten Clusters: From Structure, Energetics to Melting Properties

9th November 2017

16:00-18:00

- 9PT1 H. Serizawa (Osaka Univ., Japan) Potential of Advanced Joining Technologies to Reduced Activation Ferritic/Martensitic Steels for Fusion Reactor
- 9PT3 C. Cristalli (ENEA, Italy) Development of Innovative Materials and Thermo-Mechanical Treatments for DEMO High Operating Temperature Blanket Options
- 9PT4 H. Kishimoto (Muroran Inst. of Tech., Japan) Ion Irradiation Effect and Cavity Formation around the Interface of F82H HIPed Joint
- 9PT5 W. Wang (INEST, China) A Model for Accelerating Thermal Aging of CLAM Steel
- 9PT6 L. Tan (ORNL, USA) Tailoring the Microstructure and Mechanical Properties of Cartable Nanostructured Alloys through Thermomechanical Treatments
- 9PT7 Y. Chang (USTB, China) Microstructures and Irradiation Behavior of Friction Stir Welded 12Cr-ODS Steel
- 9PT8 P. He (CAEP, China) Fabrication and Characterization of Reduced Activation Ferritic ODS Steels with Enhanced Mechanical Properties
- 9PT9 N. Oono (Hokkaido Univ., Japan) In-situ TEM Observation of α - γ Transformation on ODS Ferritic-Martensitic Steel

- 9PT10 T. Sowa (Hokkaido Univ., Japan) Strain Hardening Behavior in 15CrODS Ferritic Steels
- 9PT11 J. Suo (HUST, China) The Effect of Nitrogen on Microstructure and Mechanical Properties of a Nitrogen-Strengthened ODS Steel
- 9PT12 Z. Lyu (Northeastern Univ., China) Effects of Al, Zr and Ti Additions on Microstructure and Mechanical Properties of ODS 15Cr-Slloys
- 9PT13 C. Ang (ORNL, USA) Effects of Irradiation on MAX Phases
- 9PT14 R. Yasuda (QST, Japan) Evaluation of Residual Strain Distribution in SiC/SiC Composite and Tungsten Joints by Synchrotron Radiation
- 9PT15 Y. Hishinuma (NIFS, Japan) Microstructure and Peeling Behavior of MOCVD Processed Oxide Insulator Coating before and after Ion Beam Irradiation
- 9PT16 Z. Zhong (Hefei Univ. of Tech., China) Brazing of SiC with In-situ Formed Ti-Si-Based Composites for Fusion Applications
- 9PT19 X. Hu (ORNL, USA) Neutron Irradiation Hardening of Tungsten
- 9PT20 L. Garrison (ORNL, USA) Neutron Irradiation Response of Ductile Phase Toughened Tungsten-Copper Composite
- 9PT21 M. Conte (KIT, Germany) Manufacturing Influences on Microstructure and Fracture Mechanical Properties of Polycrystalline W/ W Alloys
- 9PT22 Z. Wang (Beihang Univ., China) Surface Morphology and Deuterium Retention in Tungsten and Tungsten-Tantalum Alloy Exposed to Deuterium Plasma
- 9PT23 T. Hwang (Tohoku Univ., Japan) Effect of Self-Ion Irradiation on Microstructural Development and Nano-Indentation Hardness of Tungsten and Tungsten-Rhenium Alloys
- 9PT24 X. Zan (Hefei Univ. of Tech., China) Numerical Simulation of Hydrostatic Extrusion of Pure Tungsten
- 9PT25 J. Cheng (Hefei Univ. of Tech., China) Preparation, Microstructure and Performance of Sc₂O₃/W Composites by the Wet Chemical Synthesis and Spark Plasma Sintering Route
- 9PT27 V. Chernov (VNIINM, Russia) Influence of the Annealing Temperature on the Microstructure and Microhardness of the Nanostructured Low-Activation Alloy of V-Cr-ZrO₂ system
- 9PT28 Y. Chun (KAERI, Republic of Korea) Microstructure Characterization of Fe-Cr-V-Mn Based Reduced-Activation High Entropy Alloys for Fusion Reactor Applications
- 9PT29 J. Wang (City Univ. of Hong Kong, Hong Kong) The Long Period Stacking Ordered Structures in FeCoCrNiTi_{0.2} High Entropy Alloy
- 9PT30 A. Bakaev (SCK-CEN, Belgium) Multiscale Modeling of the Microstructural Evolution of ITER-Specified Tungsten under Neutron Irradiation
- 9PT31 T. Loewenhoff (FZJ, Germany) High Pulse Number Thermal Shock Testing of Powder Injection Molded Tungsten
- 9PT33 O. Ogorodnikova (Moscow Engineering Physics Inst., Russia) Influence of ELM'S-Like Events on Deuterium and Helium Retention in Tungsten and EUROFER

- 9PT34 N. Klimov (Troitsk Institute for Innovation and Fusion Research, Russia) Experimental Study of Vapour Shielding Effect on the Fusion Reactor Materials under Plasma Heat Loads Relevant to ITER Transient Plasma Events
- 9PT35 G. Lu (Beihang Univ., China) Strong Surface Morphology Modification in Tungsten Exposed to High Fluence Deuterium Plasmas at Linear Plasma Device Step
- 9PT36 S. Antusch (KIT, Germany) Processing of Complex Near-Net-Shaped Tungsten Parts by PIM
- 9PT37 M. Andrzejczuk (Warsaw Univ. of Tech., Poland) Post Mortem Analysis of an Arcing Damage of Steel Plasma Facing Component at the Inner Baffle Region of ASDEX Upgrade
- 9PT39 T. Plocinski (Warsaw Univ. of Tech., Poland) Inconel Liner Examination Following the Final Shutdown of TEXTOR
- 9PT40 S. Wang (USTB, China) Simulation Analysis of Thermal Shock Behavior of Tungsten Based Plasma Facing Component
- 9PT42 R. Dominguez-Reyes (Universidad Carlos III de Madrid, Spain) Recovery Characteristics of Dispersion Strengthened Cu-0.8Y Investigated by Positron Annihilation Spectroscopy
- 9PT43 V. Kurkuchekov (Budker Inst. of Nucl. Phys., Russia) Study of Tungsten Erosion under High Heat Fluxes Produced by Powerful Electron Beam
- 9PT45 Q. Qi (ASIPP, China) Investigation on Vacuum-Annealing Defects in Tritium Breeding Material Li_2TiO_3 Exposed in Air
- 9PT46 P. Liu (USTB, China) Microstructure of Beryllium with Inert Gas Ion Irradiation
- 9PT47 I. Kupriyanov (VNIINM, Russia) Tritium and Helium Release Behavior from Neutron Irradiated Beryllium
- 9PT48 Y. Someya (QST, Japan) Study on Impurities in Beryllides as Neutron Multiplier in DEMO Blanket for Shallow Land Disposal
- 9PT51 R. Mitteau (Raphael MITTEAU, France) Qualification of Hot Isostatic Joining Process for the Cooling Structure of ITER First Wall Panels
- 9PT53 A. Razdobarin (Loffe inst., Russia) Broad-Band Laser Mirrors for ITER Optical Diagnostics
- 9PT54 K. Kondo (QST, Japan) IFMIF/EVEDA Linear Prototype Accelerator (LIPAc): Installation Activities for Phase-B Beam Commissioning in Rokkasho
- 9PT55 H. Kondo (QST, Japan) Experimental Study on Application of Large-Scale Cold Trap and Impurity Monitoring to Liquid Lithium for Intense Fusion Neutron Source
- 9PT56 Y. Qiu (KIT, Germany) IFMIF-DONES HFTM Neutronics Modelling and Nuclear Response Analyses
- 9PT58 M. Sokolov (ORNL, USA) IAEA Coordinated Research Program on Small Specimen Test Techniques for Fusion Applications
- 9PT59 W. Zhong (CIAE, China) Small Punch Test of CLF-1 Steel
- 9PT60 M. Li (IPP, Germany) On Design of Tungsten Monoblock Divertor Target: A Perspective from Thermo-Mechanical Performance

- 9PT61 V. Stepanov (MEPhI, Russia) Radiation Phenomena in High-Temperature Ceramics and Monitoring of High-Dose High-Temperature In-Core Reactor Irradiation of Materials
- 9PT62 S. Jin (Beihang Univ., China) The Effect of Hydrogen on the Recombination of Frenkel Pair in Tungsten: a Theoretical Insight
- 9PT63 J. Byggmatar (Univ. of Helsinki, Finland) Cascade Debris Overlap Mechanism of $\langle 100 \rangle$ Dislocation Loop Formation in Fe and FeCr
- 9PT64 Y. Kamada (Iwate Univ., Japan) Magnetic Properties of Ion-Irradiated Fe-Ni Alloys
- 9PT65 T. Okita (The Univ. of Tokyo, Japan) Molecular Dynamics Simulations to Elucidate the Effects of Stacking Fault Energies on the Defect Formation Process under High Energy of a Primary Knock-On Atom
- 9PT66 A. Zarins (Univ. of Latvia, Latvia) Radiolysis of Advanced Lithium Orthosilicate Pebbles with Additions of Lithium Metatitanate
- 9PT67 M. Rajput (Institute for Plasma Research, India) Energy Differential and Displacement Damage Cross Section of DT Neutron Induced Reactions on Fusion Reactor Materials (Fe, Cr, Ni & W)
- 9PT68 C. Dethloff (KIT, Germany) Review and Critical Assessment of Dislocation Loop Analyses on EUROFER97
- 9PT71 B. Kaiser (KIT, Germany) Kinetic Rate Model for Nucleation and Growth of Helium Bubbles in Irradiated RAFM-Steels
- 9PT72 A. Gandy (Univ. of Sheffield, UK) The Study of Ion Implantation Induced Damage in Li_2TiO_3 by Raman Spectroscopy and Grazing Incidence X-Ray Diffraction
- 9PT73 H. Watanabe (Kyushu Univ., Japan) Effects of Stress on Growth Behavior of Dislocation Loops in Fe-1.4%Mn Alloy under Electron Irradiation
- 9PT74 J. Wang (Beihang Univ., China) Influence of Nitrogen Pre-Irradiation on Deuterium Blistering and Retention in Tungsten at Different Temperatures
- 9PT75 K. Yabuuchi (Kyoto Univ., Japan) Effects of Transition Metal on Point Defect Behavior in bcc Tungsten
- 9PT76 Y. Noshita (Kagoshima Univ., Japan) Detection of Phase Separation of Neutron-Irradiated Fe-Cr Binary Alloys by Positron Annihilation Spectroscopy
- 9PT78 M. Ando (QST, Japan) Mechanical Property of Neutron Irradiated F82H by using Micro-Tensile Testing
- 9PT80 K. Sato (Kagoshima Univ., Japan) Effect of Hydrogen on Hardness and Tensile Behavior in Tungsten
- 9PT81 L. Gao (IPP, Germany) Deuterium Trapping in Sputter-Deposited Tungsten Films
- 9PT82 D. Terentyev (SCK-CEN, Belgium) Microstructural and Micro-Mechanical Changes in Tungsten under He-D High Flux Plasma Exposure: Impact of He Seeding and Plastic Deformation
- 9PT83 H. Atsumi (Kindai Univ., Japan) TDS Measurements and the Evaluation of D_2 Released from Graphite
- 9PT86 J. Ding (Dalian Univ. of Tech., China) First-Principles Study of He Trapping at Cr_{23}C_6
- 9PT88 P. Edmondson (ORNL, USA) Atom Probe Characterization of Precipitates in Neutron-Irradiated Tungsten
- 9PT89 J. McDuffee (ORNL, USA) HFIR Irradiation Capabilities for Fusion Materials Research
- 9PT90 N. Ghoniem (Mechanical and Aerospace Engineering Department, USA) Multiscale-Multiphysics Approach to

the Design of A FW of the European DEMO Water Cooled Blanket

9PT91 Y. Osetskiy (ORNL, USA) Geometric Effects in Hardening Mechanisms Applicable to Irradiated Iron

9PT92 T. Okita (The Univ. of Tokyo, Japan) The Motion and Absorption of An SIA Cluster to a Line Dislocation through a Conservative Climb in BCC-Fe

9PT93 J. Shi (USTC, China) Molecular Dynamics Study of GB Structure Effects on Helium Embrittlement

9PT94 J. Zhang (INEST, China) Finite Element Analysis of Residual Stress Distribution of Dissimilar Joint Between CLAM and 316L Pipes

9PT95 H. Deng (Hunan Univ., China) The Effects of Solutes and Impurities on the Mechanical Properties of Vanadium Alloys: A First-Principles Study

9PT96 Y. Zhang (Beihang Univ., China) Energetics, Kinetics and Dynamics of Self-Interstitial Clusters in bcc Tungsten

9PT97 M. Lavrentiev (CCFE, UK) Chromium-Vacancy Clusters in Dilute bcc Fe-Cr Alloys

9PT98 J. Wu (ASIPP, China) Deuterium Retention in Deposited Tungsten with Different Porosities

9PT99 A. Pisarev (MEPHI, Russia) Features of Tritium Accumulation in Defects in Tungsten in Presence of Temperature Gradient

9PT100 K. Hashizume (Kyushu Univ., Japan) Thermomigration of Hydrogen Isotopes through Fe and Ni

9PT101 M. Kondo (Tokyo Inst. of Tech., Japan) Fabrication of High-Purity Lead Lithium Alloy and its Excellent Thermophysical and Chemical Characteristics

9PT102 M. Oyaidzu (QST, Japan) Passivation Behavior of SS304 Stainless Steel and F82H Steel in Subcritical Tritiated Water

9PT103 S. Wulf (KIT, Germany) Long-Term Corrosion Behavior of Al-Based Coatings in Flowing Pb-15.7Li Produced by Electrochemical ECX Process

9PT104 Q. Zhan (CIAE, China) Deuterium Depth Profile Analysis for FeAl-Al₂O₃ Composite Coatings and its Application in Deuterium Permeation Behaviors

9PT105 Z. Zhang (Kyoto Univ., Japan) 475°C-Embrittlement of FeCrAl-ODS Steels after Simulated Tube Processing

9PT106 Z. Yan (Peking Univ., China) The Behavior of He Bubbles in Ni and Ni-based Equiatomic Solid Solution Alloy

ICFRM-18 Program update

Session title typo

8D Materials Technologies and Testing in IFMIF, ITER and Beyond, and Materials Design

Interface Issues

Chairperson change

8D Fundamentals of radiation effects and advanced characterization (3) T. Muroga (NIFS, Japan)

Presenter change

8A60 F. Granberg (Univ. of Helsinki, Finland) Irradiation Damage in Equiatomic Multicomponent Alloys

8B40 X. Liu (SWIP, China) Recent Progress in R&D on Bulk W-ZrC Alloy Plates as Plasma-Facing Components in Fusion Devices

8D50 C.E.Kessel (PPPL, USA) Materials-Engineering Challenges for the Core and Lifetime Components of the US Fusion Nuclear Sciences Facility (FNSF)

8PT82 H. Zhou (Beihang Univ., China) Electrophobic Interaction Induced Impurity/Helium Clustering in Metals

9PT35 C. Long (Beihang Univ., China) Strong Surface Morphology Modification in Tungsten Exposed to High Fluence Deuterium Plasmas at Linear Plasma Device Step

9PT58 X. Chen (ORNL, USA) IAEA Coordinated Research Program on Small Specimen Test Techniques for Fusion Applications

Time change

IEA SiC/SiC Coordination Meeting, **12:50 - 13:50, 8th November 2017 (Wednesday)**, Small Meeting Room 1 (4F),

Presentation Cancellation

6PT62 A. Sand (Univ. of Helsinki, Finland) Effects of Cascade Overlap on Defect Morphology in Fusion Neutron-Irradiated Tungsten

6PT104 H. Liu (ASIPP, China) Effect of Irradiation on Hydrogen Isotope Permeation Behavior of Al₂O₃ Coating

7PT6 C. Lee (Korea Inst. of Materials Science, Republic of Korea) Effect of Ti Addition on Microstructures and Mechanical Properties in RAFM Steels

7PT31 B. Wielunska (IPP, Germany) Radiation Damage and Deuterium Retention in Tungsten

7PT98 A. Ksenofontov (PhD, Russia) Numerical and Experimental Investigation of the Impact of High-Intensity Ionizing Radiation on the Model of Ferritic-Martensitic Steels with Substructural Surface Zones

8PT28 T. Yan (Inst. of Modern Physics, CAS, China) Irradiation Hardening of V-4Cr-4Ti and V-5Cr-5Ti Alloys due to Helium Implantation and Displacement Damage

8PT42 Y. Hatano (Univ. of Toyama, Japan) Deuterium Retention in CuCrZr Alloy Investigated using Thermal Desorption Spectroscopy and Atom Probe Tomography