

Session Program

8-13 Oct 2012



24th IAEA Fusion Energy Conference - IAEA CN-197

Poster: P5

Thursday 11 October

08:30

Poster: P5

Poster Session | Location: Poster Room (Area F-B)

ITR/P5-44: Theoretical Issues of High Resolution H-alpha Spectroscopy Measurements in ITER

Speaker

Mr Alexander B. Kukushkin

EX/P5-36: Studies of Plasma-Lithium Interactions in TJ-II

Speaker

Mr Francisco Tabares

EX/P5-37: Scrape-off Layer Properties of ITER-like Limiter Start-up Plasmas at JET

Speaker

Mr Gilles Arnoux

EX/P5-38: Development of MHD Active Control in the RFX-mod RFP

Speaker

Mr Lionello Marrelli

EX/P5-39: The Fine-scale Structure of the Radial Electric Field in the Scrape-Off-Layer during ICRF Heating in Alcator C-Mod

Speaker

Mr James Terry

EX/4-1: Fuel Retention Studies with the ITER-like Wall in JET

Speaker

Mr Sebastijan Brezinsek

EX/4-2: Comparison of Plasma Breakdown with a Carbon and ITER-like Wall

Speaker

Mr Peter de Vries

TH/3-1: Impact of Carbon and Tungsten as Divertor Materials on the Scrape-off Layer Conditions in JET

Speaker

Mr Matthias Groth

EX/4-3: On the Challenge of Plasma Heating with the JET Metallic Wall

Speaker

Ms Marie-Line Mayoral

TH/3-2: On Edge Plasma, First Wall, and Dust Issues in Fusion Devices

Speaker

Mr Sergei Krasheninnikov

EX/4-4: Control of 3D Edge Radiation Structure with Resonant Magnetic Perturbation Fields Applied to Stochastic Layer and Stabilization of Radiative Divertor Plasma in LHD

Speaker

Mr Masahiro Kobayashi

ITR/2-1: ITER Diagnostics - Technology and Integration Challenges

Speaker
Mr David Johnson

ITR/2-2Ra: Imaging Challenges for the ITER Plasma Facing Components Protection

Speaker
Mr Jean-Marcel TRAVERE

FTP/2-1Rb: Be Tile Power Handling and Main Wall Protection

Speaker
Ms Isabel Ferreira Nunes

ITR/2-3: Technology R&D Activities for the ITER Full-tungsten Divertor

Speaker
Mr Patrick Lorenzetto

ITR/2-4: ITER Magnet Systems - from Qualification to Full Scale Construction

Speaker
Mr Hideo Nakajima

ITR/2-5: Test Results of ITER Conductors in the SULTAN Facility

Speaker
Mr Pierluigi Bruzzone

ITR/2-6: The ITER Blanket System Design Challenge

Speaker
Mr A. Rene Raffray

EX/P5-01: Wall Conditioning and Density Control in the Reversed Field Pinch RFX-mod

Speaker
Ms Maria Ester Puiatti

EX/P5-02: Effect of Lithium Coating on Edge Particle Recycling in EAST H-mode Discharge

Speaker
Ms Ling Zhang

EX/P5-03: Assessment of Tungsten Nano-tendrils Growth in the Alcator C-Mod Divertor

Speaker
Mr Graham Wright

EX/P5-04: Longterm Evolution of the Impurity Composition and Transient Impurity Events with the ITER-like Wall at JET

Speaker
Mr Jan Willem Coenen

EX/P5-05: Characterization of Tungsten Sputtering in the JET Divertor

Speaker
Mr Gerard van Rooij

EX/P5-06: Cooling Characteristics and Mitigation of He-Defected Tungsten with Nanostructure Formation

Speaker
Mr Shuichi TAKAMURA

EX/P5-07: In Vessel Fuel Inventory Build-up in Tokamaks: Lessons Learnt from Tore Supra

Speaker
Ms Emmanuelle Tsitrone

EX/P5-08: Impact of Arcing on Carbon and Tungsten: from the Observations in JT-60U, LHD, and NAGDIS-II

Speaker
Mr Shin Kajita

EX/P5-09: Overview of the International Research on Ion Cyclotron Wall Conditioning

Speaker
Mr David DOUAI

EX/P5-10: Efficiency of Fuel Removal: Overview of Techniques Tested on Plasma-Facing Components from the TEXTOR Tokamak

Speaker
Mr Volker Philipps

EX/P5-11: Measurements of Net versus Gross Erosion of Molybdenum Divertor Surface in DIII-D

Speaker
Mr Dimitry L. Rudakov

EX/P5-12: Effect of Changes in Separatrix Magnetic Geometry on Divertor Behavior in DIII-D

Speaker
Mr Thomas W. Petrie

EX/P5-13: Characterization of Particle and Power Loads on Divertor Targets for Type-I, Type-III, and Mossy ELM My H-modes in EAST Superconducting Tokamak

Speaker
Mr Liang Wang

EX/P5-14: Development of Laser Based Techniques for In-situ Characterization of the First Wall in ITER and Future Fusion Devices

Speaker
Mr Volker Philipps

EX/P5-15: Approaches towards Steady-State Advanced Divertor Operations on EAST by Active Control of Plasma-Wall Interactions

Speaker
Mr Houyang Guo

EX/P5-16: Scaling of the Divertor Heat Flux Width in the DIII-D Tokamak

Speaker
Mr Michael A. Makowski

EX/P5-17: MAST Contributions to the Exhaust Challenge, Including Testing of Super-X

Speaker
Mr Geoff Fishpool

EX/P5-18: Low Concentration of Iron as First Wall Material in LHD Plasmas with Edge Ergodic Layer

Speaker
Mr Shigeru Morita

EX/P5-19: ICRF Operation with Improved Antennas in a Full W-wall ASDEX Upgrade, Status and Developments

Speaker
Mr Volodymyr Bobkov

EX/P5-21: Snowflake Divertor as Plasma-Material Interface for Future High Power Density Fusion Devices

Speaker
Mr Vsevolod Soukhanovskii

EX/P5-22: Reduction of Peak Wall Power Loads in L- and H-mode Tokamak Plasmas in TCV with the Snowflake Divertor

Speaker
Mr Wouter Vijvers

EX/P5-23: Improvement of the Spectroscopic Investigation of Pellet Ablation Clouds

Speaker
Mr Mohammed KOUBITI

EX/P5-24: Power Handling of the Tungsten Divertor in JET

Speaker
Mr Philippe MERTENS

EX/P5-25: Recent achievements of the T-11M lithium program

Speaker
Mr Sergey Mirnov

EX/P5-26: Tore Supra Contribution to Experimental Prediction of the Power Flux to the Limiter in the ITER Start-up Mode

Speaker
Ms Pascale Monier-Garbet

EX/P5-27: The Effects of Increasing Lithium Deposition on the Power Exhaust Channel in NSTX

Speaker
Mr Travis Gray

EX/P5-28: Dependence of the L-H Power Threshold on X-point Geometry

Speaker
Mr Devon Battaglia

EX/P5-29: First Results of Closed Helical Divertor Experiment in LHD

Speaker
Mr Tomohiro Morisaki

EX/P5-30: Nitrogen Seeding for Heat Load Control in JET ELMy H-mode Plasmas and its Compatibility with ILW Materials

Speaker
Ms Carine Giroud

ICC/P5-01: Results from LTX with Lithium-Coated Walls

Speaker
Mr Richard Majeski

EX/P5-31: Liquid Lithium Divertor Characteristics and Plasma-Material Interactions in NSTX High-Performance Plasmas

Speaker
Mr Michael Jaworski

EX/P5-32: Control of Dust Flux in LHD and in a Divertor Simulator

Speaker
Mr Kazunori Koga

EX/P5-33: Toroidal Asymmetry of Divertor Heat Deposition during the ELM and 3-D Field Application in NSTX

Speaker
Mr Joon-Wook Ahn

EX/P5-34: Symmetries and Asymmetries in the Divertor Detachment in ASDEX Upgrade

Speaker
Mr Marco Wischmeier

EX/P5-35: A Global Particle-balance Model for Wall Interaction Analysis Associated with Open- and Closed-loop Density Control Experiments in KSTAR

Speaker
Mr June-Woo Juhn

ITR/P5-41: Exploring Measurement Capabilities of ITER ECE System

Speaker
Mr Max Austin

ITR/P5-42: First studies of ITER diagnostic mirrors in a tokamak with all-metal interior: results of first mirror test in ASDEX Upgrade

Speaker
Mr Andrey Litnovsky

ITR/P5-43: Exploring the Engineering Performance Limits of DNB

Speaker
Mr Arun Kumar Chakraborty

EX/P5-40: Fast Wave Power Flow along SOL Field Lines in NSTX

Speaker
Mr Rory Perkins

ITR/P5-01: Progress on Manufacturing of the ITER Vacuum Vessel Equatorial and Lower Ports in Korea

Speaker
Mr Jeong-Woo Sa

ITR/P5-02: Quench Detection in ITER Superconducting Magnet Systems

Speaker
Mr Jean-Luc DUCHATEAU

ITR/P5-03: Simulation of Eddy Current and Electromagnetic Loads in ITER Conducting Structures

Speaker
Mr Valery Belyakov

ITR/P5-04: Transient Electromagnetic Analysis of the ITER Blanket System

Speaker
Mr Michael Ulrickson

ITR/P5-05: Results of ITER TF Coil Sub and Full Scale Trials Performed in Japan

Speaker
Mr Kunihiro Matsui

ITR/P5-06: Progress of Manufacturing and Quality Testing of the ITER Divertor Outer Vertical Target in Japan

Speaker
Mr Yohji Seki

ITR/P5-07: Developments Toward Fully Metallic Actively Cooled Plasma Facing Components for ITER divertor

Speaker
Mr Jérôme BUCALLOSI

ITR/P5-08: Effort on Design of a Full Tungsten Divertor for ITER

Speaker
Mr Frederic ESCOURBIAC

ITR/P5-09: Experimental Simulation of Beryllium Armour Damage Under ITER-like Intense Transient Plasma Loads

Speaker
Mr Igor Kupriyanov

ITR/P5-10: Status & Progress of the R&D Work for ITER Magnet Supports

Speaker
Mr Pengyuan Li

ITR/P5-11: Feedack of the Licensing Process of the First Nuclear Installation in Fusion, ITER

Speaker
Mr Carlos ALEJALDRE

ITR/P5-12: ITER Machine Assembly – Challenges and Progress

Speaker
Mr Ken BLACKLER

ITR/P5-14: Activation Analyses of Lead Lithium Cooled Ceramic Breeder Test Blanket Module in ITER

Speaker
Mr Chandan Danani

ITR/P5-15: Preliminary Corrosion Studies on Structural Materials in Lead-Lithium for Indian LLCB TBM

Speaker
Ms Sarada Sree Atchutuni

ITR/P5-16: Progress in the EU Test Blanket Systems Safety Studies

Speaker
Mr Dobromir Panayotov

ITR/P5-18: Transient Thermal-hydraulic Modeling and Analysis of Chinese HCSB TBM

Speaker
Mr Zhiwei Zhou

ITR/P5-22: Experimental Assessment of Materials Exposed to Coolant Water under ITER Relevant Operational Conditions

Speaker
Mr Jonas Eskhult

ITR/P5-23: Development and Testing of Plasma Disruption Mitigation Systems Applicable for ITER

Speaker
Mr Stephen Combs

ITR/P5-24: ITER Fuelling and Glow Discharge Cleaning System Overview

Speaker
Mr So Maruyama

ITR/P5-25: Scientific Computing for Real Time Data Processing and Archiving for ITER Operation

Speaker
Mr Stefan Simrock

ITR/P5-26: Status of R&D on In-Vessel Dust & Tritium Management in ITER

Speaker
Mr Frederic Le Guern

ITR/P5-27: Challenges of Integrating a Typical Diagnostics Port Plug in ITER

Speaker
Mr André Grosman

ITR/P5-28: Assessing the Nuclear Environment for ITER Port Plugs and Port-based Diagnostics

Speaker
Mr Russell Feder

ITR/P5-29: Error Fields Expected in ITER and their Correction

Speaker
Mr Yury Gribov

ITR/P5-30: Status of Thomson Scattering in ITER Divertor

Speaker
Mr Evgenii Mukhin

ITR/P5-31: System-Level Optimization of ITER Magnetic Diagnostics: Preliminary Results

Speaker
Mr Shakeib Arshad

ITR/P5-32: Electron Kinetic Effects on Interferometry, Polarimetry and Thomson Scattering in Burning Plasmas

Speaker
Mr Vladimir Mirnov

ITR/P5-33: ITPA Assessment of ITER Microwave Diagnostic Design Issues

Speaker
Mr Garrard Conway

ITR/P5-34: Mirrors for ITER Optical Diagnostics

Speaker
Mr Alexey Razdobarin

ITR/P5-35: Progress on Design and R&D for ITER Diagnostic Systems in Japan Domestic Agency

Speaker
Mr Yasunori Kawano

ITR/P5-36: Reconstruction of Distribution Functions of Fast Ions and Runaway Electrons in ITER Plasmas Using Gamma-Ray Spectrometry

Speaker
Mr Alexander Shevelev

ITR/P5-37: Evolution of the ITER Diagnostic Set Specifications

Speaker
Mr Michael Walsh

ITR/P5-38: Analysis of Current Profile Measurement Capability on ITER

Speaker
Mr Ryota Imazawa

ITR/P5-39: ITER High Resolution Gamma Spectrometry

Speaker
Mr Dmitry Gin

ITR/P5-40: Overview of the ITPA R&D Activities for Optimizing ITER Diagnostic Performance

Speaker
Mr Hyeon Keo PARK

12:30