

Session Program

22-27 Oct 2018

27th IAEA Fusion Energy Conference - IAEA CN-258

P3 Posters

Mahatma Mandir Conference Centre
Gandhinagar (nearest Airport: Ahmedabad), India

Wednesday 24 October

08:30

P3 Posters

Poster Session | Location: Mahatma Mandir Conference Centre, Gandhinagar (nearest Airport: Ahmedabad), India

A Concept of Self-Cooled Breeding Blanket with Advanced Molten Salt Flinak for High-Efficiency and Long-Life Operation

Speaker

Mr Juro Yagi

Effect of magnetic field on the corrosion behavior of Indian RAFMS in liquid Pb-Li

Speaker

Mrs Poulami Chakraborty

Er2O3 Coating by Multilayer Metallic Sputtering and Intermediate Oxidation Approach

Speaker

Dr Pratipalsinh A. Rayjada

3MW Dual Output High Voltage Power Supply Operation: Results for Accuracy, Stability and Protection Test

Speaker

Mr AMITKUMAR PATEL

Studies on high temperature vacuum brazing of Tungsten to Tungsten alloy materials for DEMO divertor application

Speaker

Dr Premjit Singh Kongkham

Effect of Simulated Post Weld Heat Treatment on the Microstructure and Mechanical Properties of IN-RAFM Steel

Speaker

Mr Chandra Sekhar Sasmal

Thermo-hydraulic Analysis of Forced Flow Helium Cooled Cryopanel of Cryopump Using Venecia Code

Speaker

Mr Samiran Shanti Mukherjee

Experimental analysis of self-organized structure and transport on magnetospheric plasma device RT-1

Speaker

Dr Masaki Nishiura

Scaling Study of Reconnection/ Merging Heating of Spherical Tokamak Plasmas for Direct Access to Burning Plasma

Speaker

Prof. Yasushi Ono

Development of Technology for Fabrication of Prototype Ion Extraction Grid for Fusion Research

Speaker

Dr Mukti Ranjan Jana

Particle balance investigation with the combination of rate equations of hydrogen state and hydrogen barrier model in long duration discharges on all-metal PFW QUEST

Speaker
Prof. Kazuaki Hanada

Development of RF based capacitively-coupled plasma system for deposition of tungsten nano layers on graphite

Speaker
Mr Sachin S. Chauhan

Neutron Irradiation Impact on ITER Grade Insulating Material

Speaker
Dr Sejal Shah

Conceptual design of Neutron Activation System for IN-LLCB TBM

Speaker
Ms Shailja Tiwari

Performance of Transmission Line System at 42 ± 0.2 GHz for an Indigenous Gyrotron System

Speaker
Ms Pujita Bhatt

Development and Qualification of Passive Active Multijunction (PAM) Launcher for LHCD System of ADITYA -Upgrade Tokamak

Speaker
Mr Yogesh Jain

Recent progresses on the RMP researches towards active control of tearing mode in the J-TEXT tokamak

Speaker
Prof. Yonghua Ding

Pellet fuelling prospects and injector system for Aditya-U tokamak

Speaker
Dr Jyoti Shankar Mishra

Experimental Studies of Plasmoid Reconnection for Closed Flux Current Generated by Coaxial Helicity Injection on HIST

Speaker
Prof. Masayoshi Nagata

The Potential For Retention of Spin Polarization To Raise Fusion Reactivity

Speaker
Dr Sterling Smith

Real-Time Feedback Control System for Plasma Position Stabilisation in ADITYA-U Tokamak

Speaker
Mr ROHIT KUMAR

Modification in LHCD DAC System to Incorporate Measurement of RF Power

Speaker
Mr Rameshkumar Joshi

Investigation of magnetic topology on spontaneous transition phenomena for high beta plasma of Large Helical Device

Speaker
Dr Yasuhiro Suzuki

New approach to the control of particle recycling using divertor pumping in LHD

Speaker
Dr Gen Motojima

Effect of deuterium plasmas on carbon impurity transport in the edge stochastic magnetic field layer of Large Helical Device

Speaker
Dr Tetsutarou Oishi

Status of Studies of Pulsed Heat Load Influence on Tungsten at BETA Facility and Station of SR Scattering "Plasma" in BINP

Speaker
Dr Arakcheev Aleksey

The Advanced Tokamak Path to a Compact Net Electric Pilot Plant

Speaker
Dr Jin Myung Park

Overview of the Methods developed for Fission Plants Safety relevant to the Safety of Fusion Facilities

Speaker
Dr Dobromir Panayotov

Deuteron Beam Commissioning of the Linear IFMIF Prototype Accelerator Source and LEBT

Speaker
Dr Masayoshi Sugimoto

Structural analysis for strength and fatigue life of half coupling weldment for large cooling water pipes

Speaker
Mr Kunal Bhatt

Neutron flux distributions in the LHD torus hall evaluated by an imaging plate technique in the first campaign of deuterium plasma experiment

Speaker
Dr Makoto Kobayashi

Isotope effects on confinement and turbulence in ECRH plasma of LHD

Speaker
Dr Kenji Tanaka

Core transport improvement in stable detachment with RMP application to the edge stochastic layer of LHD

Speaker
Dr Masahiro Kobayashi

Surface Characterization of Li coatings and their interaction with plasmas for fusion applications via Ion Beam Analysis Techniques

Speaker
Dr Felipe Bedoya

Development of HINEG and its experimental campaigns

Speaker
Prof. Jieqiong Jiang

Novel Method for Determination of Tritium Depth Profiles in Metallic Samples

Speaker
Dr Elina Pajuste

RGA Analysis and Surface Analysis of SST-1 Graphite Tiles in High Temperature Vacuum Baking

Speaker
Mr ArunPrakash Arumugam

The DEMO fuel cycle – novel technologies for tritium inventory reduction

Speaker
Dr Christian Day

Neutronics Experiment for Design Validation of Indian TBM Shield Module

Speaker
Mr H. L. SWAMI

Dispersion Strengthened Copper Alloys Produced by Mechanical Alloying and Hot Isostatic Pressing for Divertor Application

Speaker
Dr Hiroyuki Noto

Effect of magnetic field structure on electron internal transport barrier and its role for the barrier formation in Heliotron J

Speaker
Dr Takashi Minami

Plasma current generation and ramp-up by the lower hybrid wave using outboard-launch and top-launch antennas on the TST-2 spherical tokamak

Speaker
Dr Akira Ejiri

Multiple turbulent plasma states in the H-mode transition on JT-60U

Speaker
Dr Kensaku Kamiya

Design Progress of Advanced Fusion Neutron Source for JA/DEMO Fusion Reactor

Speaker
Dr Kentaro Ochiai

Fully Non-inductive 2nd Harmonic Electron Cyclotron Current Ramp-up with Focused Polarized Beams in the QUEST Spherical Tokamak

Speaker
Dr Hiroshi Idei

Overview of the NSTX-U Recovery Project Physics and Engineering Design

Speaker
Dr Stefan Gerhardt

Radiation Properties of the Metal Structural Materials during Low-Temperature Damaging Irradiation

Speaker
Prof. Viacheslav Chernov

The Configuration Dependence of Isotope Effects on Turbulence System in Heliotron J

Speaker
Dr Shinsuke OHSHIMA

Evaluation of Beam Properties of a Negative Hydrogen Source by Doppler Shift Spectroscopy**Speaker**

Mr Arnab Jyoti Deka

Novel Approach of Pulsed-Glow Discharge Wall Conditioning in ADITYA Upgrade Tokamak**Speaker**

Mr Kumarpalsinh Jadeja

Ion Irradiation Induced Modifications in Tungsten Foils**Speaker**

Dr Asha Attri

Artificial Neural Network for Yield Strength Prediction of Irradiated RAFM Steels**Speaker**

Mr Agraj Abhishek

Effect of sorbent selection and geometrical arrangement of cryopanel on pumping speed of cryopump**Speaker**

Ms Ranjana Gangradey

Advanced capabilities of multi-functional calculation program SuperMC3.2 for complex nuclear system**Speaker**

Dr Lijuan Hao

New Fusion Facilities at UKAEA – FTF and H3AT**Speaker**

Mr Colin Walters

Global supply of tritium for fusion R&D**Speaker**

Mr Matti Coleman

Study of locking mechanism of locked-mode-like instability in helical plasmas**Speaker**

Dr Yuki Takemura

2D and 3D modelling of JT-60SA for disruptions and plasma start-up**Speaker**

Prof. Gianmaria De Tommasi

Dependence of RMP penetration threshold on plasma parameters and ion species in helical plasmas**Speaker**

Dr Kiyomasa WATANABE

Investigation of fine structure formation of guide field reconnection during merging plasma startup of spherical tokamak in TS-3U**Speaker**

Dr Hiroshi Tanabe

Characterization of Isotope Effect on Confinement of Dimensionally Similar NBI-Heated Plasmas in LHD**Speaker**

Prof. Hiroshi Yamada

Design and Simulation Studies of Calorimetric Dummy Load for Gyrotron System

Speakers

Mr Axat Patel, Mr Maulik Shah

Tritium Handling and Recovery System for Accelerator Based 14-MeV Neutron Generator**Speaker**

Mrs Deepti dubey

Performance of 14-MeV Neutron Generator at IPR**Speaker**

Mr SUDHIRSINH VALA

Study on production and extraction of negative ion impurity ions in a Cesium negative ion source**Speaker**

Mrs Bharathi Magesh

Tungsten Fuzz Formation on the Nitrided Tungsten Surface**Speaker**

Mr Timur Tulenbergenov

Structural and Vibrational Properties of Lead-Lithium Alloys: A First Principles Study**Speaker**

Dr Shyamkumar Khambholja

Energy differential and displacement damage cross section of DT neutron induced reactions on fusion reactor materials (Fe, Cr & W)**Speaker**

Mr Mayank Rajput

Application of ANSYS FLUENT MHD Code for Liquid Metal MHD Studies**Speaker**

Mrs Anita Patel

Contribution of fusion energy to low-carbon development under the Paris Agreement and accompanying uncertainties**Speaker**

Dr Keii Gi

Safety factor profile control with reduced CS flux consumption during plasma current ramp-up phase using reinforcement learning technique**Speaker**

Dr Takuma Wakatsuki

Fluctuation suppression by the potential formation in GAMMA 10/PDX plasma**Speaker**

Dr Masayuki Yoshikawa

Energetic-ion Confinement Studies by using Comprehensive Neutron Diagnostics in the Large Helical Device**Speaker**

Dr Kunihiko Ogawa

Thermal Performance Analysis of Al₂O₃ - Water Nanofluid as a Coolant in Nuclear Applications**Speaker**

Mr Sayantan Mukherjee

Neutronic analysis of IFMIF-DONES Test Cell cooling system

Speaker

Mr Gediminas Stankunas

A Multi-Parameter Optimization technique considering temporal and spatial variation in nuclear response of materials in Fusion devices

Speaker

Ms Priti Kanth

Extent of Tritium Contamination of Helium Circuit in a Fusion Reactor- probable scenarios

Speaker

Mr Vinit Shukla

Rapid Radial Propagation of Momentum Change and Flow Oscillation Associated with a Pellet Injection

Speaker

Dr Tokihiko Tokuzawa

Synergistic Effect of Impurity and Hydrogen Gas Puffs on Plasma Detachment in the GAMMA 10/PDX Tandem Mirror

Speaker

Dr Naomichi Ezumi

Electron Bernstein Wave Heating and Current Drive with Multi-Electron Cyclotron Resonances During Non-inductive Start-up on LATE

Speaker

Prof. Hitoshi Tanaka

Multiphysics approach to plasma neutron source modelling at the tokamak JET

Speaker

Mr Žiga Štancar

12:30