

Friday 26 October

08:30

P7 Posters

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

Negative ion beam source physics as a complex system: identification of main processes and key interdependence

Speaker

Dr Vanni Antoni

SST-1 Cryogenics Requirements and the Way Forward

Speaker

Dr Vipulkumar Tanna

Stability, Transport, and Active MHD Mode Control Analysis of KSTAR High Performance Plasmas Supporting Disruption Avoidance

Speaker

Dr Young-Seok Park

Implementation of the Spherical Tokamak MEDUSA-CR: Stage 1

Speaker

Prof. Jaime Mora-Meléndez

Design optimization of Helium cooling systems for Indian LLCB TBM

Speaker

Mr Brijesh Kumar Yadav

The Scrape-off Layer plasma transport physics simulation activity for Indian tokamaks Aditya and SST-1

Speaker

Dr Devendra Sharma

Development of a Prototype Collaborative Robot for Fusion Remote Handling Applications

Speaker

Mr Naveen Rastogi

Early definition of the maintenance plan is essential to achieve an economic EU DEMO

Speaker

Mr Oliver Crofts

Collisional Merging of a Field-Reversed Configuration in the FAT-CM Device

Speaker

Prof. Tomohiko Asai

Power Coupling of Lower Hybrid Fast Wave in VEST

Speaker

Dr Sun-Ho Kim

Velocity Profile and modulation frequency of lons in a Magnetized Plasma Sheath using kinetic trajectory simulation method

Speaker

Dr Raju Khanal

Timing and Synchronization for Integrated Operation of Large Volume Plasma Device

Speaker

Mr Ritesh SUGANDHI

Overview of Recent Gyrotron R&D towards DEMO within EUROfusion Work Package Heating and Current Drive

Speaker

Gerd Gantenbein

Simulation Study of the Impurity Radiation in the Quasi-Snowfalke Divertor with Ne Seeding for CFETR

Speaker

Prof. Minyou Ye

Pressure balance in a low collisionality tokamak scrape-off layer

Speaker

Mr Randy Churchill

Plasma transport in toroidally discontinuous limiter generated 3D SOL configurations of Aditya tokamak

Speaker

Mr Bibhu Prasad Sahoo

Design of the TF/PF Bus Bar lay out and its connections with Current Feeder System of SST1 Tokamak

Speaker

Mr bharatkumar doshi

Conceptual Design of a Compact Helical Fusion Reactor FFHR-c1 for the Early Demonstration of a Year-long Electric Power Generation

Speaker

Dr Takuya Goto

SOL/Divertor Plasma Simulation of Diverging Magnetic Field Configurations for Advanced Divertors

Speaker

Dr Satoshi Togo

Advanced Assembly Technology of the Superconducting Coils in JT-60SA Tokamak

Speaker

Dr Yusuke Shibama

the ITER plasma current termination phase: physics constraints on control

Speaker

Dr Francesca Poli

Observation of Heat Load on the Castellated Tungsten Block by Back-Scattered Particles from Intentionally Misaligned Protruding Edge

Speaker

Dr Suk-Ho Hong

Optimising the ITER 15MA DT Baseline Scenario by Exploiting a Self-Consistent Free-Boundary Coreedge-SOL Workflow in IMAS

Speaker

Dr Florian Koechl

R&D for reliable disruption mitigation in ITER

Speaker

Dr Michael Lehnen

Development and experiment of PbLi facilities for fusion nuclear technology

Speaker

Dr Dehong Chen

Synthetic edge and SOL diagnostics - a bridge between experiments and theory

Speaker

Dr Anders Henry Nielsen

Pump Characterization of 80 K Liquid Nitrogen Booster System for SST-1

Speaker

Mr Gaurang Mahesuria

JET Upgraded Diagnostic Capabilities and Scientific Exploitation in Support of Deuterium-Tritium Operation

Speaker

Dr Joao Figueiredo

Bifurcation of Perpendicular Rotation and Field Penetration at the Transition to RMP-induced ELM-crash Suppression

Speaker

Dr Jaehyun Lee

Intrinsic Toroidal Rotation for Ohmic L-mode Plasmas in KSTAR

Speaker

Dr Sang Gon Lee

A toroidal confinement facility study and eventual experimental device to investigate a range of liquid metal divertor and first-wall concepts

Speaker

Mr Thomas Brown

Thermal-hydraulic Characteristics Study of Superconducting Magnets of SST-1

Speaker

Mr Upendra Prasad

Simulations of Tokamak Boundary Plasma Turbulent Transport

Speaker

Xueqiao Xu

Electron Impact Excitation of W^40+ to W^43+ Ions: Cross Section and Polarization

Speaker

Ms Neelam Shukla

The physics basis for a solution to the power and particle exhaust problem of a next step device

Speaker

Dr Marco Wischmeier

Assessment and optimization of the cavity thermal performance for the European Continuous Wave gyrotrons

Speaker

Prof. laura savoldi

Design and Thermal Fluid Structure Interaction Analysis of Liquid Nitrogen Cryostat of Cryogenic Molecular Sieve Bed Adsorber for Hydrogen Isotopes Removal System

Speaker

Ms Gayathri V.

Maintenance experience of 315kW Electrical Motor of Helium screw compressor in 1.3kW Helium Refrigerator/Liquefier Plant

Speaker

Mr Dikens Christian

Characteristics of Asymmetric (low-field-side and high-field side) Divertor Detachment in KSTAR L-mode Plasmas

Speaker

Mr Jae-Sun Park

ELM Suppression and Internal Transport Barrier Formation by Krypton Seeding in KSTAR Plasmas

Speaker

Mr Juhyeok Jang Jang

Wide divertor heat-flux width in ITER from self-organization between the neoclassical and turbulent transports across the separatrix surface

Speaker

Dr Choongseok Chang

Experimental observation and modelling of high-Z impurity transport by tungsten powder injection in KSTAR plasmas

Speaker

Mr Inwoo Song

Integrated Modeling of Core, Edge Pedestal and Scrape-Off-Layer for High Beta_N Steady-State Scenarios on DIII-D

Speaker

Dr Richard J. Buttery

Performance assessment of tightly-baffled long-leg divertor geometries in the ARC reactor concept

Speaker

Mr Michael Wigram

Ion Inertial Effects on Three-dimensional Filament Dynamics

Speaker

Dr Hiroki Hasegawa

Comparative analysis of the SOL properties for the various magnetic configurations proposed for the DEMO divertor

Speaker

Dr Vincenzo PERICOLI RIDOLFINI

The Influence of Toroidal Magnetic Field Growth on Plasma Performance in the Spherical Tokamak Globus-M/-M2

Speaker

Dr Vladimir Minaev

The effect of electron cyclotron heating on thermal and fast-ions transport in high beta-poloidal discharges at KSTAR

Speaker

Dr Si-Woo Yoon

Multi-physics modeling of the long-term evolution of plasma-exposed surfaces

Speaker

John Canik

Thermal Diffusivity Measurement of Functional & Structural Materials for Fusion Blanket Application

Speaker

Mr Aroh Shrivastava

Error field experiment and analysis in SST-1

Speaker

Mr Someswar Dutta

Development of a plasma scenario for the EU-DEMO: current activities and perspectives

Speaker

Dr Mattia Siccinio

Conversion of electrostatic Bernstein waves in the SCR-1 Stellarator using a full wave code

Speaker

Dr Ivan Vargas-Blanco

Time Resolved Triton Burnup Measurements Using the Scintillating Fiber Detector on KSTAR

Speaker

Mr Jungmin Jo

Experimental observations of the plasma shape effect on the RMP-ELM coupling for optimization of the KSTAR ELM-crash control

Speaker

Dr YoungMu Jeon

Solenoid-free start-up utilizing outer PF coils with the help of EBW pre-ionization and change of external inductance in VEST

Speaker

Mr HyunYeong Lee

Simulation of Beryllium Erosion and Surface Damage Under ITER-like Transient Plasma Heat Loads

Speaker

Dr Igor Kupriyanov

First Analysis of the Updated ITPA Global H-Mode Confinement Database

Speaker

Dr Geert Verdoolaege

Effects of Reconnection Downstream Conditions on Electron Parallel Acceleration during Merging Startup of Spherical Tokamak

Speaker

Prof. Michiaki Inomoto

Poloidal Flows, Asymmetries and Multiscale Organisation in Interplaying Core-edge-SOL Turbulent Plasmas

Speaker

Dr David Zarzoso

Exact conservative solutions of fluid models for the scrape-off layer as the ancestors of blobs?

Speaker

Prof. João P. S. Bizarro

Development of DEMO-FNS fueling systems and modeling hydrogen isotopes distribution via «FC-FNS» simulation code

Speaker

Dr Sergey Ananyev

Simulation of cross-separatrix edge plasma transport with the continuum gyrokinetic code COGENT

Speaker

Dr Mikhail Dorf

Robust Burn Control in ITER Under Deuterium-Tritium Concentration Variations in the Fueling Lines

Speaker

Prof. Eugenio Schuster

Internal Structure of MHD Fluctuations for Various Current Density Profiles during Current Rise Phase of Ohmic Discharge in VEST

Speaker

Mr Jeong-hun Yang

Evolution of locked mode under the existence of non-axisymmetric fields in KSTAR

Speaker

Dr Jayhyun Kim

Progress in design of DEMO-FNS hybrid facility

Speaker

Yuri Shpanskiy

Progress in Design and Fabrication of Current and Helium Feeding System for JT-60SA Superconducting Coils

Speaker

Mr Kaname Kizu

Non-Invasive Plasma Density Measurement in a 13.56 MHz Magnetized Capacitive Coupled RF discharge

Speaker

Ms shikha Binwal

Implementation of 3-D effects of the ITER plasma-facing components in a 2-D real-time model-based approach for wall heat flux control on ITER

Speaker

Dr Himank Anand

Development of Capacitively-Coupled Combline Antennas for Current Drive in Tokamaks

Speaker

Prof. Yuichi Takase

Assessment of Alternative Divertor Configurations as an Exhaust Solution for DEMO

Speaker

Dr Holger Reimerdes

Implications of Uncertainties on the European DEMO design

Speaker

Dr Hanni Lux

Thermo-structural and heat load analysis of SST-1 Superconducting coils

Speaker

Mr Arvind Tomar

Continuum Gyrokinetic Simulations of NSTX SOL Turbulence with Sheath-Limited Model Geometries

Speaker

Mr Ammar Hakim

Progresses at CEA on EU DEMO reactor cryomagnetic system design activities and associated R&D

Speaker

Dr Louis ZANI

Effects of Lithium Coating of Chamber Wall on the STOR-M Tokamak Discharges

Speaker

Prof. Chijin Xiao

Advances in modelling of plasma pedestal behaviour and ELM control in ITER reference plasma scenarios

Speaker

Dr Alberto Loarte

Recent progress in developing Gamma Spectrometer in ITER

Speaker

Dr Dmitry Gin

Self-consistent modelling of a liquid metal pool-type divertor

Speaker

roberto zanino

Key Considerations in the Power Extraction from Fusion Reactors

Speaker

Mr Piyush Prajapati

Operational Results and Troubleshooting in Current Feeder System for SST-1

Speaker

Mr Atul Garg

Preventive measures to avoid electrical arcing incidences in SST-1 PF current leads

Speaker

Ms Swati Roy

Model Development and Electromagnetic Analysis of Vertical Displacement Event for CFETR Helium Cooled Solid Blanket

Speaker

Prof. Hongli Chen

12:30