

**Session Program**

22-27 Oct 2018

**27th IAEA Fusion Energy Conference - IAEA CN-258**

***P5 Posters***

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

# Thursday 25 October

08:30

## P5 Posters

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

### Centrifugal force driven low frequency modes in spherical tokamak

Speaker

Dr G.Z. Hao

### A power-balance model of density limit in fusion plasmas

Speaker

Dr paolo zanca

### Stability and Confinement Studies in the Gas Dynamic Trap

Speaker

Dr Vadim Prikhodko

### Suppression and destabilization of ion fishbone activities on HL-2A

Speaker

Dr Wei Chen

### Peculiar Properties of Disruptions on T-10 Tokamak at Different Edge Safety Factor Values

Speaker

Dmitriy Ryzhakov

### Sandpile modelling of pellet pacing in fusion plasmas

Speaker

Mr Craig Bowie

### Roles of RMP-induced Changes of Radial Electric Fields in ELM Suppression

Speaker

Zhihong Lin

### NTM Excitation by Sawtooth Crashes and the Suppression of their Onset by Resonant Magnetic Perturbation

Speaker

Prof. Sibylle Günter

### Ion kinetic effects on MHD instabilities in high beta LHD plasmas

Speaker

Dr Masahiko Sato

### Electromagnetic Analysis of APPEL Linear Device Magnets

Speaker

Ms Y Patil

### Development of the $q=1$ Advanced tokamak Scenarios in HL-2A

Speaker

Prof. YI LIU

### Gyrokinetic Modeling with an Extended Magnetic Equilibrium including the Edge Region of Large Helical Device

**Speaker**  
Dr Toseo Moritaka

### **Characteristics of electromagnetic turbulence on KTX experiment device**

**Speaker**  
Dr Wenzhe Mao

### **Resistive Wall Mode physics and control challenges in JT-60SA high $\beta_N$ scenarios**

**Speaker**  
Dr Leonardo Pigatto

### **Pedestal dynamics in inter-ELM phase on HL-2A tokamak**

**Speaker**  
Dr Jun Cheng

### **Thermal energy confinement at the Globus-M spherical tokamak.**

**Speaker**  
Dr Gleb Kurskiv

### **Localized modulation of turbulence by magnetic islands on HL-2A tokamak**

**Speaker**  
Min Jiang

### **Simulation of the internal kink mode in visco-resistive regimes**

**Speaker**  
Mr Jervis Mendonca

### **Effects of magnetic perturbations on magnetic field stochastication during edge pedestal collapse**

**Speaker**  
Dr Juhung Kim

### **Nonlinear MHD simulations of Quiescent H-mode in ASDEX-Upgrade and ITER**

**Speaker**  
Dr FENG LIU

### **Energetic-ion Driven Toroidal and Global Alfvén Eigenmodes on HL-2A**

**Speaker**  
Mr Peiwan Shi

### **Plasma confinement and pedestal dynamics responses to impurity seeding in HL-2A H-mode plasmas**

**Speaker**  
Dr Wulyu Zhong

### **Comparative simulations of the plasma response to RMPs during ELM-crash mitigated and suppressed phases in KSTAR**

**Speaker**  
Dr Gunyoung Park

### **Numerical Relaxation of a 3D MHD Taylor-Woltjer State Subject to Abrupt Expansion**

**Speaker**  
Mr Rupak Mukherjee

### **Physics and Engineering Design for Chinese First Quasi-axisymmetric Stellarator(CFQS)**

**Speaker**  
Prof. Yuhong Xu

**Equilibrium Pressure-Driven Current in the Presence of a Small Magnetic Island: Singular Behavior and Symmetry Effects**

**Speaker**  
Allan Reiman

**Nonlinear evolution of multi-helicity neoclassical tearing modes in HL-2A low rotation plasmas**

**Speaker**  
Dr Xiaoquan Ji

**Aditya up-gradation equilibrium study**

**Speaker**  
Mrs Deepti sharma

**Ecton Mechanism of Energy Load on ITER-grade Tungsten Limiter T-10 Tokamak and Forecast for ITER.**

**Speaker**  
Mr Leonid Khimchenko

**Endogenous Magnetic Reconnection and Associated Processes of Relevance to Fusion Burning Plasmas**

**Speaker**  
Linda Sugiyama

**The Effect of Pressure Anisotropy on Ballooning Modes in Tokamak Plasmas**

**Speaker**  
Dr Matthew John Hole

**Plasma equilibrium reconstruction of JET discharges using the IMAS modelling infrastructure**

**Speaker**  
Dr Rui Coelho

**Nonlinear Dynamics of Tearing Mode Driven by Static and Rotating External 3D Fields**

**Speaker**  
Dr Shizuo Inoue

**Gyrokinetic-MHD coupled simulation of RMP plasma interaction reproduces density pump-out seen in the tokamak edge**

**Speaker**  
Dr Robert Hager

**First Plasma Scenario Development for HL-2M**

**Speaker**  
Prof. Xianming SONG

**Electric potential and turbulence in OH and ECRH low-density plasmas**

**Speaker**  
Dr Alexander Melnikov

**Role of NTV particle flux in density pumpout during ELM control by RMP**

**Speaker**  
Dr Yueqiang Liu

**Real-time control system of neoclassical tearing modes in the HL-2A tokamak**

**Speaker**  
Dr Longwen Yan

**Nonlinearly Saturated Ideal Magnetohydrodynamic Equilibrium States with Periodicity-Breaking in Stellarators**

**Speaker**  
Dr Daniel López-Bruna

**Influence of electron cyclotron resonance heating on ion heat conductivity in T-10 plasma**

**Speaker**  
Mr Maxim Nurgaliev

**Effect of LBO-seeded Impurity on ELMs in the HL-2A tokamak**

**Speaker**  
Dr Yipo Zhang

**Plasma transport in linear and helical multiple-mirror systems**

**Speaker**  
Prof. A.V. Burdakov

**Negative Triangularity Effects on Tokamak MHD Stability**

**Speaker**  
Linjin Zheng

**Effects of Microtearing Modes on the Evolution of Electron Temperature Profiles in High Collisionality NSTX discharges**

**Speaker**  
Dr Francesca Poli

12:30