

**Session Program**

22-27 Oct 2018

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

***P4 Posters***

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

## Wednesday 24 October

14:00

### P4 Posters

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

#### Broadband Characterization of High Temperature Black Body Source with Fourier Transform Michelson Interferometer for ECE Measurements

Speaker

Mr Abhishek Sinha

#### A Diagnostic Approach for the Detection of Spatially Distributed Low Energy Confined Runaway Electrons in the ADITYA-U Tokamak by means of Synchrotron Emission Imaging in the Sub-millimetre Wavelength Band

Speaker

Dr Shwetang Pandya

#### Global PIC simulation of RF waves in toroidal geometry

Speaker

Dr Animesh Kuley

#### Mode Converted Electrostatic Nonlinear Ion-Ion Hybrid Mode In Tokamak Plasma

Speaker

Dr JYOTI ATUL

#### Integrated System Electronics and Instrumentation ; Operation and Diagnostic for Aditya-U Tokamak

Speaker

Ms Rachana Rajpal

#### Ka-Band Reflectometer System for measuring Radial Electron Density Profile at IPR.

Speakers

Mr Janmejay Umeshbhai Buch, Dr Surya Kumar Pathak

#### Beam Ion Performance and Power Loads in the ITER Pre-Fusion Power Operating Scenarios (PFPO) with Reduced Field and Current

Speaker

Dr Taina Kurki-Suonio

#### Gas Fuelling Control System of Aditya Tokamak

Speaker

Mr Narendra Patel

#### Experimental investigation of Power Coupling by RF Antenna into Plasmas in Presence of Magnetized Ions

Speaker

Mr Jay Joshi

#### Application of TEM to study the changes in sub-surface defects in Tungsten samples as a function of annealing temperature

Speaker

Mr Satyaprasad Akkireddy

**Design and testing of X-mode reflectometry system for coupling studies of lower hybrid waves in ADITYA-U tokamak**

**Speaker**

Mr Jagabandhu Kumar

**Investigations on Growth of Quasi - Longitudinal (QL) Whistlers with Energy Scaling of Energetic Electrons in LVPD**

**Speaker**

Mr Amulya Kumar Sanyasi

**Progress of a DPSSL based R&D facility TERU for IFE technology and industrial applications**

**Speaker**

Dr Takeshi Watari

**Neon Gas Seeded Radiative Improved Mode in Aditya-U Tokamak**

**Speaker**

Dr Malay Bikas Chowdhuri

**Radiation power loss study during gas puff induced disruptions in Aditya-U Tokamak**

**Speaker**

Mrs Kumudni Tahiliani

**ECRH and mode conversion in overdense W7-X plasmas**

**Speaker**

Dr Pavel Aleynikov

**Design of a NIR Spectrometer for Aditya-U Tokamak and Initial Results.**

**Speaker**

Dr Payal Pandit

**Runaway Electron (RE) Mitigation Using Supersonic Molecular Beam Injection in the Aditya-U Tokamak**

**Speaker**

Dr Santanu Banerjee

**Analysis of Electron Cyclotron Wave Assisted Plasma Start-up in SST-1**

**Speaker**

Mr Amit Kumar Singh

**Controlling Plasma Rotation using Periodic Gas-puff in ADITYA-U Tokamak**

**Speaker**

Mr Gaurav Shukla

**Observations of Intrinsic Toroidal Rotation using X-Ray Crystal Spectrometer in ADITYA-U Tokamak**

**Speaker**

Ms KAJAL SHAH

**Mass Dependent Impurity Transport Study in ADITYA Tokamak**

**Speaker**

Mrs sapna Mishra

**Plasma Potential Measurements in the edge region of ADITYA - U Tokamak using Reciprocating Laser Heated Emissive Probes**

**Speaker**

Ms Abha Kanik

**Experimental Discharge Characterization of IEC Plasma Device**

**Speaker**  
Prof. Gamal Elaragi

**Effect of multiple periodic gas puff on neutral temperature in Aditya – U tokamak**

**Speaker**  
Ms Nandini Yadav

**Mechanical Mockup of IFE Reactor Intended for the Development of Cryogenic Targets Mass Production and Rep-Rate Delivery into the Reaction Chamber**

**Speaker**  
Prof. Boris Kuteev

**Chord Average Density Measurement using Microwave Interferometry in LVPD**

**Speaker**  
Mr Pankaj Kumar Srivastava

**Modelling of electron cyclotron resonance heating and current drive in the T-15-MD tokamak with GENRAY and CQL3D codes**

**Speaker**  
Mr Pavel Minashin

**Development of Multipurpose Soft X-Ray Tomography System for ADITYA-U.**

**Speaker**  
Mr Jayesh Raval

**Edge Current Density Profile Measurement Using an Array of Miniature Magnetic Probes in ADITYA-U Tokamak**

**Speaker**  
Mr Tanmay Macwan

**Excitation of Electron Temperature Gradient (ETG) Turbulence and Effect on Plasma Transport in LVPD**

**Speaker**  
Dr LALIT AWASTHI

**Design and development of Passive Charge Exchange Neutral Particle Analyzer for ADITYA-U Tokamak**

**Speaker**  
Dr Snehlata Aggarwal

**Fast Wave induced ICRF plasma Expansion in ADITYA torus**

**Speaker**  
Dr Kishore Mishra

**ADITYA Experimental Results of Core Ion Temperature Measurements on ADITYA Tokamak Using Four Channel Neutral Particle Analyser**

**Speaker**  
Mr Kumar Ajay

**Effect of externally applied radial electric field (biased-electrode) on Geodesic Acoustic Modes in SINP tokamak**

**Speaker**  
Mr Lavkesh Lachhvani

**Simulations on the particle and heat fluxes for the RF heating H-mode on EAST**

**Speaker**  
Mr Tianyang Xia

### **Theoretical and Computational Studies on the Scattering of Radio Frequency Waves by Fluctuations**

**Speaker**  
Dr Abhay Ram

### **H-11B Fusion Reactor with Extreme Laser Pulses for non-LTE Igniton**

**Speaker**  
Prof. Heinrich Hora

### **Target Design Study of Fast Ignition for Ignition and Burning Experiments**

**Speaker**  
Mr Hideo Nagatomo

### **Particle Simulation Studies on Ion Effective Heating through Merging Plasmas**

**Speaker**  
Dr Shunsuke Usami

### **Interpenetration and Stagnation in Collapsing Plasma's**

**Speaker**  
Dr Khaled Al-Shboul

### **Electron acceleration in dense plasmas heated by picosecond relativistic laser**

**Speaker**  
Dr Natsumi Iwata

### **The impact of the hydrogen species on the HHFW performance with possible new NSTX-U scenarios**

**Speaker**  
Dr Nicola Bertelli

### **Anomalous Absorption and Emission in ECRH Experiments Due to Parametric Excitation of Localized UH Waves**

**Speaker**  
Prof. Evgenii Gusakov

### **Development of shell injection system for the future IFE power plant**

**Speaker**  
Prof. Yoshitaka Mori

### **Impurity Screening in High Density Aditya Tokamak Plasmas**

**Speaker**  
Mrs RANJANA MANCHANDA

### **Study of Iron Impurity Behavior using VUV Spectroscopy in Aditya and Aditya-U Tokamak**

**Speaker**  
Mr Sharvil Patel

### **Design and Development of 140 GHz D-Band Phase Locked Heterodyne Interferometer System for Real Time Density Measurement**

**Speaker**  
Mr Umesh Kumar Nagora

### **Plasma Column Position Measurements using Magnetic Diagnostics in ADITYA-U Tokamak**

18:45

**Speaker**  
Mr Suman Aich