

प्लाज़्मा अनुसंधान संस्थान, गाँधीनगर/ Institute for Plasma Research, Gandhinagar
शोध प्रतिवेदन, सितम्बर 2024/ Research Reports, September 2024

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1	R. Ganesh	Interaction of driven "cold" electron plasma wave with thermal bulk via ion spatial inhomogeneity	IPR/RR-1683/Sep 2024
2	Ankit Dhaka	CCDPx: A Versatile Experimental Device for Studying Multi-dimensional Complex Plasma Configurations	IPR/RR-1684/Sep 2024
3	Kaushal Pandya	Effect of Plasma Confinement Magnets on ROBIN performance	IPR/RR-1685/Sep 2024
4	R. Ganesh	Convective cell to shear flow instability in 2D Yukawa liquids driven by Reynolds stress: A first principles study	IPR/RR-1686/Sep 2024
5	A. K. Sanyasi	Development of Laser Heated Oxide Coated Cathode Emissive Probe (LHOCCEP) Diagnostics for large Volume Plasma Device – Upgrade	IPR/RR-1687/Sep 2024
6	J. Mishra	Development of a Cryogenic Pellet Injector Utilizing a Pneumatically Driven Mechanical Actuator	IPR/RR-1688/Sep 2024
7	Sarveshwar Sharma	Effect of gas pressure on plasma asymmetry and higher harmonics generation in sawtooth waveform driven capacitively coupled plasma discharge	IPR/RR-1689/Sep 2024
8	Sayantana Mukherjee	Enhancing performance with Al ₂ O ₃ -CuO/Water hybrid nanofluid: An experimental study	IPR/RR-1690/Sep 2024
9	Souvik Mondal	Merging dynamics of plasma blobs in the Scrape-off Layer of a tokamak	IPR/RR-1691/Sep 2024
10	Pravesh Dhyani	Determination of electrode current and its temporal evolution using a leaky capacitor model in ADITYA tokamak electrode-biasing experiments	IPR/RR-1692/Sep 2024
11	Yashashri Patil	Properties of a 13.56 MHz RF plasma formed between a pair of coaxial cylinders with axisymmetric magnetic field	IPR/RR-1693/Sep 2024

तकनीकी प्रतिवेदन, सितम्बर 2024/ Technical Reports, September 2024

S. No.	Author	Report Title	Report Number
1	Mayur Mehta	Activation cross section for $^{85}\text{Rb}(n,2n)^{84\text{m}}\text{Rb}$ and $^{85}\text{Rb}(n,p)^{85\text{m}}\text{Kr}$ reactions with uncertainty propagation and covariance analysis	IPR/TR-818/Sep 2024
2	Prabhakar Tripathi	Design and Investigation of View-Dump for Vertical Electron Cyclotron Emission (V-ECE) Receiver System	IPR/TR-819/Sep 2024
3	Suraj Kumar Gupta	Shutter Closure and False Trigger Problem in High Resolution Visible Imaging Diagnostics installed in Aditya-U	IPR/TR-820/Sep 2024
4	Prashant Kumar	Remote operation of RF Generator, Magnets and Diagnostics of Helicon Plasma Thruster	IPR/TR-821/Sep 2024