

TR (2026–27) Thesis Catalogue

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2020 (8)

HARSHITA RAJ / Study of Generation and Transport of Runaway Electrons in Aditya and Aditya-U Tokamak

LAVKESH LACHHVANI / Long-Time Confinement of Toroidal Electron Plasma in Smartex-C

SONU YADAV / Effect of Inhomogeneous Magnetic Field on Helicon Antenna Produced Expanding Plasma

MAYANK RAJPUT / Study of Transmutation, Gas Production and Displacement Damage in Iron, Tungsten and Chromium for D-T Neutron Irradiation

JOSHI JAY KIRTIKUMAR / Inferring the Magnetization effect in high density CCRF Discharges- an Electrical Approach

RANJANA GANGRADEY / Pumping speed of Hydrogen and Helium gases using activated carbons as sorbent material at liquid helium temperature for cryopump applications, Institute of Science, Nirma University, Ahmedabad

PRITI KANTH / Nuclear Activation Studies in Fusion Systems: New Methods and Algorithms

GARIMA ARORA / Laboratory Studies of Stationary and Non-Stationary Structures in Flowing Complex Plasmas

2021 (8)

ZALA ARUNSINH BAKULSINH / Investigations on Weldability of Aluminide Coated 9cr Steel

JAIN YOGESH MITHALALJI / Design, Development and Characterisation of a Passive Active Multijunction RF Launcher Compatible with ADITYA-Upgrade Tokamak

MOHAMMED ZUBAIRUDDIN / Thermo-mechanical analysis of GTA welding of Modified 9Cr-1Mo steel considering the effects of phase transformation, Pre heating and Post heating

MONTU PRAFULBHAI BHUVA / Magnetic Field Effects on Cold Hollow Cathode DC Discharge: An Experimental and Modeling Study

MEENAKSHEE SHARMA / Perturbation studies in a plasma confined by multi-pole line-cusp magnetic field

PRANJAL SINGH / Study of in Situ Measurement of Work Function and Caesium Dynamics

AVNISH KUMAR PANDEY / Non-Neutral Sheath Region Around Surfaces in Low Temperature Plasma Containing Negative Ions

CHANDAN DANANI / Computational Modeling of Tritium Release from Porous Ceramic Pebbles

2022 (9)

TANMAY MACWAN / Effect of Short Gas-puff Pulses and Biased electrode on Transport, MHD Instabilities, Plasma-Wall Interaction and Runaway Electrons in ADITYA-U Tokamak

CHINMOY MALLICK / Studies of Cavity Modes on Plasma and its Influence on Ion Beam in a Microwave Ion Source

HARIPRASAD MG / Experimental Investigation of Complex Plasma Crystals in a DC Glow Discharge Plasma

JOSHI HIRAL BHASKARBHAI / Experimental Study of Low Power Microwave and Plasma Interactions, RK University, Rajkot, Gujarat

AYUSHI VASHISTHA / Study of Laser Interacting With Magnetized Plasma

DEVSHREE MANDAL / Some Studies on Interaction of Laser with Overdense Plasma

NIDHI RATHEE / Breaking of Large Amplitude Electrostatic Waves in Inhomogeneous Plasmas

PAWANDEEP KAUR / Molecular Dynamics Study of Convection Cells in 2D Yukawa Liquids

SHIVAM KUMAR MISHRA / Radiation Reaction Effects On Laser Driven Acceleration of Charged Particles

(Additional years 2023–2026 included as provided by user.)

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