

2020-2029 thesis bibliographic details

STUDY OF GENERATION AND TRANSPORT OF RUNAWAY ELECTRONS IN ADITYA AND ADITYA-U TOKAMAK

HARSHITA RAJ

Homi Bhabha National Institute, 2020

621.039.6(043.2) RAJ B27109

FUSION TECHNOLOGY | TOKAMAK | THESIS

DR. JOYDEEP GHOSH

LONG-TIME CONFINEMENT OF TOROIDAL ELECTRON PLASMA IN SMARTEX-C

LAVKESH LACHHVANI

Homi Bhabha National Institute, 2020

533.9(043.2) LAC B27116

PLASMA PHYSICS | NON NEUTRAL PLASMA | PLASMA CONFINEMENT | THESIS

DR. P. K. CHATTOPADHYAY

EFFECT OF INHOMOGENEOUS MAGNETIC FIELD ON HELICON ANTENNA PRODUCED EXPANDING PLASMA

SONU YADAV

Homi Bhabha National Institute, 2020

533.951(043.2) YAD B27044

PLASMA PHYSICS | HELICON WAVES | HELICON PLASMAS | THESIS

PROF. P. K. CHATTOPADHYAY

STUDY OF TRANSMUTATION, GAS PRODUCTION AND DISPLACEMENT DAMAGE IN IRON, TUNGSTEN AND CHROMIUM FOR D-T NEUTRON IRRADIATION

MAYANK RAJPUT

Homi Bhabha National Institute, 2020

621.039.512(043.2) RAJ B27046

NUCLEAR ENGINEERING | NEUTRONICS | NEUTRON KINETICS IN THE REACTOR | REACTOR CORE THEORY AND EXPERIMENTS | THESIS

DR. R. SRINIVASAN

INFERRING THE MAGNETIZATION EFFECT IN HIGH DENSITY CCRF DISCHARGES- AN ELECTRICAL APPROACH

JOSHI JAY KIRTIKUMAR

Homi Bhabha National Institute, 2020

537.53(043.2) JOS B27141

CCRF DISCHARGES IN PLASMA | CAPACITIVE COUPLED RADIO FREQUENCY DISCHARGES | THESIS

DR. S.K. KARKARI

PUMPING SPEED OF HYDROGEN AND HELIUM GASES USING ACTIVATED CARBONS AS SORBENT MATERIAL AT LIQUID HELIUM TEMPERATURE FOR CRYOPUMP APPLICATIONS

RANJANA GANGRADEY.

Institute of Science, Nirma University, Ahmedabad, 2020

536.483(043.2) GAN B27105

CRYOGENICS | THESIS DR. VIPUL TANNA

NUCLEAR ACTIVATION STUDIES IN FUSION SYSTEMS: NEW METHODS AND ALGORITHMS

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NUCLEAR FUSION | NUCLEAR ACTIVATION METHOD | THESIS

DR.P.V. SUBHASH and DR. R. SRINIVASAN

LABORATORY STUDIES OF STATIONARY AND NON-STATIONARY STRUCTURES IN FLOWING
COMPLEX PLASMAS

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523.62-726(043.2) ARO B27142

PLASMA CHEMISTRY | DUSTY PLASMAS | THESIS

DR. PINTU BANDOPADHYAY and PROF. A. SEN

INVESTIGATIONS ON WELDABILITY OF ALUMINIDE COATED 9Cr STEEL

ZALA ARUNSINH BAKULSINH

Homi Bhabha National Institute, 2021

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METALLURGY | SURFACE COATINGS | WELDING | THESIS

DR. NIRAV I. JAMNAPARA and DR. MUKESH RANJAN

DESIGN, DEVELOPMENT AND CHARACTERISATION OF A PASSIVE ACTIVE MULTIJUNCTION RF
LAUNCHER COMPATIBLE WITH ADITYA-UPGRADE TOKAMAK

JAIN YOGESH MITHALALJI

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FUSION TECHNOLOGY | TOKAMAK | ADITYA-UPGRADE | THESIS

DR. PROMOD KUMAR SHARMA DR. SURYA K. PATHAK

THERMO-MECHANICAL ANALYSIS OF GTA WELDING OF MODIFIED 9CR-1MO STEEL
CONSIDERING THE EFFECTS OF PHASE TRANSFORMATION, PRE HEATING AND POST HEATING

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MAGNETIC FIELD EFFECTS ON COLD HOLLOW CATHODE DC DISCHARGE: AN EXPERIMENTAL
AND MODELING STUDY

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Homi Bhabha National Institute, 2021

621.387(043.2) BHU B27192

ELECTRON DEVICES | DISCHARGE TUBES | THESIS

DR. SHANTANU KUMAR KARKARI

PERTURBATION STUDIES IN A PLASMA CONFINED BY MULTI-POLE LINE-CUSP MAGNETIC FIELD

MEENAKSHEE SHARMA

Homi Bhabha National Institute, 2021

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PLASMA PHYSICS | MAGNETICALLY CONFINED PLASMAS | THESIS

DR. R. RAMSUBRAMANIAN

STUDY OF IN SITU MEASUREMENT OF WORK FUNCTION AND CAESIUM DYNAMICS

PRANJAL SINGH

Homi Bhabha National Institute, 2021

539.12...18(043.2) SIN B27310

THESIS | NEUTRAL BEAM INJECTORS | ATOMIC PHYSICS

DR. MAINAK BANDYOPADHYAY

NON-NEUTRAL SHEATH REGION AROUND SURFACES IN LOW TEMPERATURE PLASMA
CONTAINING NEGATIVE IONS

AVNISH KUMAR PANDEY

Homi Bhabha National Institute, 2021

533.9...15(043.2) PAN
B27353 LOW TEMPERATURE PLASMAS | THESIS
DR. SHANTANU KUMAR KARKARI

COMPUTATIONAL MODELING OF TRITIUM RELEASE FROM POROUS CERAMIC PEBBLES
CHANDAN DANANI
Homi Bhabha National Institute, 2021
621.039.6(043.2) DAN B27354
FUSION TECHNOLOGY | FUSION REACTORS | BREEDING BLANKETS | TRITIUM BREEDING |
THESIS
DR. MANOJ KUMAR WARRIER DR. R. GANESH

EFFECT OF SHORT GAS-PUFF PULSES AND BIASEDELECTRODE ON TRANSPORT, MHD
INSTABILITIES, PLASMA-WALL INTERACTION AND RUNAWAY ELECTRONS IN ADITYA-U
TOKAMAK
TANMAY MACWAN
Homi Bhabha National Institute, 2022
621.039.6(043.2) MAC B27387
FUSION TECHNOLOGY | TOKAMAK | ADITYA-UPGRADE | THESIS
DR. JOYDEEP GHOSH

STUDIES OF CAVITY MODES ON PLASMA AND ITS INFLUENCE ON ION BEAM IN A MICROWAVE
ION SOURCE
CHINMOY MALLICK
Homi Bhabha National Institute, 2022
537-962(043.2) MAL B27456
ION SOURCE | MICROWAVE ION SOURCE | THESIS
DR. RAJESH KUMAR DR. MAINAK BANDYOPADHYAY

EXPERIMENTAL INVESTIGATION OF COMPLEX PLASMA CRYSTALS IN A DC GLOW DISCHARGE
PLASMA
HARIPRASAD MG
Homi Bhabha National Institute, 2022
537.525(043.2) HAR B27455
PLASMA PHYSICS | GLOW DISCHARGE | PLASMA PHYSICS
DR. PINTU BANDOPADHYAY

EXPERIMENTAL STUDY OF LOW POWER MICROWAVE AND PLASMA INTERACTIONS
JOSHI HIRAL BHASKARBHAI
RK University, Rajkot, 2022
533.9.082.74(043.2) JOS B27457
PLASMA PHYSICS | MICROWAVES | ELECTRODYNAMICS | MICROWAVE PLASMA INTERACTIONS
| THESIS
DR. ASHISH TANNA & DR. RAJESH KUMAR
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STUDY OF LASER INTERACTING WITH MAGNETIZED PLASMA
AYUSHI VASHISTHA
Homi Bhabha National Institute, 2022
533.9.07(043.2) VAS B27523
PLASMA PHYSICS | LASER PLASMA INTERACTION | THESIS
DR. HEM CHANDRA JOSHI
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SOME STUDIES ON INTERACTION OF LASER WITH OVERDENSE PLASMA
DEVSHREE MANDAL

Homi Bhabha National Institute, 2022
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PLASMA PHYSICS | THESIS | LASER PLASMA INTERACTION
DR. HEM CHANDRA JOSHI

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BREAKING OF LARGE AMPLITUDE ELECTROSTATIC WAVES IN INHOMOGENEOUS PLASMAS
NIDHI RATHE

Homi Bhabha National Institute, 2022
533.951(043.2) RAT B27621

PLASMA PHYSICS | PLASMA WAVES | THESIS
PROF. SUDIP SENGUPTA

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MOLECULAR DYNAMICS STUDY OF CONVECTION CELLS IN 2D YUKAWA LIQUIDS
PAWANDEEP KAUR

Homi Bhabha National Institute, 2022
523.62-726(043.2) KAU B27622

MOLECULAR DYNAMICS | COMPLEX PLASMAS | THESIS
PROF. RAJARAMAN GANESH

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RADIATION REACTION EFFECTS ON LASER DRIVEN ACCELERATION OF CHARGED PARTICLES
SHIVAM KUMAR MISHRA

Homi Bhabha National Institute, 2022
539.12...17(043.2) MIS B27623

HIGH ENERGY PHYSICS | PARTICLE ACCELERATION | THESIS
PROF. SUDIP SENGUPTA

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STUDY OF PLASMA ACTIVATION OF WATER AND ITS APPLICATIONS IN ANTIMICROBIAL AND
AGRICULTURAL ACTIVITIES

VIKAS RATHORE

Homi Bhabha National Institute, 2023
533.92(043.2) RAT B27673

PLASMA PHYSICS | PLASMA APPLICATIONS | PLASMA ACTIVATED WATER- PAW | THESIS
DR. S.K. NEMA

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COLLECTIVE DYNAMICS OF ACTIVE OR SELF-PROPELLED PARTICLES

SOUMEN DE KARMAKAR

Homi Bhabha National Institute, 2023
531.39(043.2) DEK B27642

COLLECTIVE DYNAMICS | SELF PROPELLED PARTICLES | THESIS
PROF. RAJARAMAN GANESH

<https://idrms.ipr.res.in/share/proxy/alfresco/slideshow/node/content/workspace/SpacesStore/58cb3716-1266-45e6-bef3-ac354c4311b4/Soumen.pdf>

STUDIES ON EXTERNAL ELECTRODE INFLUENCE ON MAGNETIZED PLASMA PROPERTIES IN LINEAR DEVICE

SATADAL DAS

Homi Bhabha National Institute, 2023

533.922(043.2) DAS B27667

PLASMA PHYSICS | THESIS

DR. SHANTANU KUMAR KARKARI

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SUPERHYDROPHOBIC SURFACES DEVELOPED THROUGH ARGON PLASMA PROCESSING FOR SELF-CLEANING AND WATER HARVESTING TECHNOLOGIES

PACHCHIGAR VIVEK MAHENDRAKUMAR

Homi Bhabha National Institute, 2023

533.92 (043.2) PAC B27674

PLASMA PROCESSING | PLASMA APPLICATIONS | THESIS

DR. MUKESH RANJAN DR. SUBROTO MUKHERJEE

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EXPLORING ELECTRON PLASMAS CONFINED IN TOROIDAL MAGNETIC FIELD: A 3D PARTICLE-IN-CELL SIMULATION STUDY

SWAPNALI KHAMARU

Homi Bhabha National Institute, 2023

533.951.8(043.2) KHA B27670

PLASMA PHYSICS | THESIS

PROF. RAJARAMAN GANESH

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SPECTROSCOPIC INVESTIGATION OF NEUTRAL AND IMPURITY DYNAMICS IN THE EDGE REGION OF ADITYA-U TOKAMAK

NANDINI YADAV

Nirma University, Ahmedabad, 2023

621.039.6(043.2) YAD B27724

FUSION TECHNOLOGY | TOKAMAK | THESIS (softcopy not received)

DR. ANKUR PANDYA & DR. JOYDEEP GHOSH

LINEAR AND NONLINEAR WAVES IN SPATIALLY NON-UNIFORM 1D VLASOV-POISSON PLASMAS

SANJEEV KUMAR PANDEY

Homi Bhabha National Institute, 2023

530.182(043.2) PAN B27732

NONLINEAR DYNAMICS | VLASOV SIMULATION | THESIS

PROF. RAJARAMAN GANESH

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DESIGN, DEVELOPMENT AND CHARACTERIZATION OF DOPPLER SHIFTED SPECTROSCOPIC DIAGNOSTIC SYSTEM FOR NEGATIVE HYDROGEN ION BEAM IN FUSION APPLICATION,

ARNAB JYOTI DEKA

Homi Bhabha National Institute, 2023

539.12...18(043.2) DEK B27775

HIGH ENERGY PHYSICS | NEGATIVE IONS | BEAM TECHNOLOGY | THESIS

DR. MAINAK BANDYOPADHYAY

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MAGNETOHYDRODYNAMIC STUDY OF MAGNETIC ISLAND COALESCENCE - ROLE OF SHEAR FLOWS

JAGANNATH MAHAPATRA

Homi Bhabha National Institute, 2023

537.84(043.2) MAH B27736

MAGNETOHYDRODYNAMICS | THESIS

PROF. RAJARAMAN GANESH

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ANALYSIS, DESIGN AND CHARACTERIZATION OF METASURFACES FOR RCS REDUCTION

PRIYANKA TIWARI

Homi Bhabha National Institute, 2023

537-962(043.2) TIW B27755

MICROWAVES | MICROWAVES- STRATEGIC APPLICATIONS | THESIS

DR. SURYA K. PATHAK DR. ANITHA V.P.

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NANOPATTERNS FORMATION BY LOW-ENERGY IONS: EXPERIMENT AND SIMULATION

SUKRITI HANS

Homi Bhabha National Institute, 2023

533.924(043.2) HAN B27738

ION BEAM INTERACTION | PLASMA INTERACTION WITH SOLIDS | THESIS

DR. MUKESH RANJAN

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EXPERIMENTAL STUDY OF A QUASI TWO-DIMENSIONAL COMPLEX PLASMA

SWARNIMA SINGH

Homi Bhabha National Institute, 2023

523.62-726(043.2) SIN B27866

NUCLEAR ENGINEERING | NEUTRONICS | THESIS

DR. PINTU BANDYOPADHYAY PROF. ABHIJIT SEN

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STUDY ON ROTATING DUSTY PLASMA EQUILIBRIA AND THEIR EXCITATIONS IN STRONGLY COUPLED QUASI-LOCALIZED REGIME

PRINCE KUMAR

Homi Bhabha National Institute, 2023

523.62-726(043.2) PRI B27737

STRONGLY COUPLED PLASMAS | DUSTY PLASMA | THESIS

DR. DEVENDRA SHARMA

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EXCITATION OF NON-LINEAR WAVES AND INSTABILITIES IN A FLOWING DUSTY PLASMA\

KRISHAN KUMAR

Homi Bhabha National Institute, 2023

533.951.8(043.2) KRI B27867

NONLINEAR PLASMA | PLASMA STABILITY | THESIS

DR. PINTU BANDYOPADHYAY & PROF. ABHIJIT SEN

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DEVELOPMENT OF A ROTATING TRITIUM TARGET-BASED D-T NEUTRON GENERATOR SYSTEM FOR FUSION NEUTRONICS STUDIES

SUDHIRSINH J VALA

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DR. MAINAK BANDYOPADHYAY & DR. RAJESH KUMAR

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GUIDED AND LEAKY MODES CHARACTERISTICS OF DIELECTRIC LOADED HELIX STRUCTURE

AJAY KUMAR PANDEY

Homi Bhabha National Institute, 2023

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ENGINEERING | RF COMMUNICATION | ANTENNAS | RADIO WAVES | THESIS

PROF. S.K. PATHAK

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INVESTIGATION OF THERMAL PLASMA JET FOR LOW – PRESSURE PLASMA SPRAYING

RAM KRUSHNA MOHANTA

Homi Bhabha National Institute, 2024

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THERMAL PLASMA | PLASMA JET | PLASMA SPRAY | THESIS

DR. G. RAVI

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SYNTHESIS AND STUDIES ON SOME SURFACE CONDITIONING MATERIALS AND TECHNIQUES FOR TOKAMAK AND LABORATORY VACUUM SYSTEMS

KUMARPALSINH A. JADEJA

SAURASHTRA UNIVERSITY, RAJKOT 2023

621.039.6(043.2) JAD B27869

FUSION TECHNOLOGY | TOKAMAK | TOKAMAK WALL CONDITIONING | THESIS

DR. JOYDEEP GHOSH & DR. BHARAT R. KATARIA

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STUDIES ON EXTRACTION OF AN ION BEAM AND ITS TRANSPORT FROM A MULTI-CUSP GRIDDED ION SOURCE

RAWAT BHARATSINGH BHUPENDRASINGH

Homi Bhabha National Institute, 2024

537.53(043.2) RAW B27870

ION BEAM TRANSPORT | THESIS

DR. SANJEEV KUMAR SHARMA

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CONTROL OF EDGE AND SCRAPE-OFF LAYER TOKAMAK PLASMA TURBULENCE

VIJAY SHANKAR

Homi Bhabha National Institute, 2024

533.951.7(043.2) VIJ B27873

PLASMA PHYSICS | PLASMA DYNAMICS | PLASMA TURBULENCE | THESIS

DR. NIRMAL BISAI & PROF. ABHIJIT SEN

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DEVELOPMENT OF PULSED SUPERSONIC BEAM SYSTEM FOR TOKAMAK EDGE DIAGNOSTICS AND OTHER APPLICATIONS

MILAAN VIJAYBHAI PATEL

Homi Bhabha National Institute, 2024

621.039.6(043.2) PAT B27906

TOKAMAK DIAGNOSTICS | SUPERSONIC BEAM SYSTEM | THESIS

DR. JINTO THOMAS & DR. PARITOSH CHAUDHURI

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DEVELOPMENT OF SERS SUBSTRATES BASED ON SELF-ORGANIZED NANOPARTICLES FOR THE MOLECULAR SENSING APPLICATIONS

SEBIN AUGUSTINE

Homi Bhabha National Institute, 2024

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RAMAN SPECTROSCOPY | MOLECULAR SPECTROSCOPY | NANOTECHNOLOGY | THESIS

DR. MUKESH RANJAN

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STUDIES ON MAGNETIC FIELD EFFECTS IN A CAPACITIVE COUPLED CYLINDRICAL RADIO FREQUENCY PLASMA DEVICE

SWATI

Homi Bhabha National Institute, 2024

533.924(043.2) SWA B27909

PLASMA PHYSICS | PLASMA INTERACTIONS | RF PLASMAS | THESIS

PROF. SHANTANU K. KARKARI

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RATCHET EFFECTS AND COLLECTIVE DYNAMICS IN PASSIVE AND ACTIVE SYSTEMS

ANSHIKA CHUGH

Homi Bhabha National Institute, 2024

532.51(043.2) CHU B27907

MOLECULAR DYNAMICS | MOLECULAR TRANSPORT | RATCHET EFFECTS | THESIS

PROF. RAJARAMAN GANESH & DR. MANOJ KUMAR WARRIER

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EFFECT OF IMPURITY GAS SEEDING IN THE BOUNDARY REGION OF TOKAMAK

SHRISH RAJ

Homi Bhabha National Institute, 2024

533.932(043.2) RAJ B27910

PLASMA TRANSPORT | PLASMA TURBULENCE | IMPURITY SEEDING | THESIS

DR. NIRMAL BISAI & PROF. ABHIJIT SEN

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SHEATH EFFECTS ON THE RESONANCE HAIRPIN PROBE IN NEGATIVE ION DIAGNOSTICS

PAWANDEEP SINGH

Homi Bhabha National Institute, 2024

533.9...15(043.2) SIN B27911

NEGATIVE ION DIAGNOSTICS | THESIS

PROF. SHANTANU K. KARKARI

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EXPERIMENTAL STUDIES OF CONFINEMENT IMPROVEMENT, DISRUPTION MITIGATIONS, AND RUNAWAY ELECTRONS MITIGATIONS IN ADITYA AND ADITYA-U TOKAMAK

RAKESHKUMAR L. TANNA

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621.039.6 (043.2) TAN

FUSION TECHNOLOGY | TOKAMAK | THESIS

DR. CHETNA CHAUHAN & DR. JOYDEEP GHOSH

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AN ENGINEERING STUDY OF CONCEPTS FOR HEAT EXTRACTION AND POWER CONVERSION FROM MODERATE SIZED TOKAMAK FUSION REACTORS

PIYUSH PRAJAPATI

Homi Bhabha National Institute, 2024

621.039.6(043.2) PRA B27927

FUSION TECHNOLOGY | TOKAMAK | THESIS

PROF. SHISHIR DESHPANDE

<https://ecloud.ipr.res.in/f/27337829>

TURBULENT DYNAMO ACTION IN A 3-DIMENSIONAL MAGNETOHYDRODYNAMIC PLASMA

SHISHIR BISWAS

Homi Bhabha National Institute, 2024

533.951.7(043.2) BIS B27922

PLASMA DYNAMICS | PLASMA TURBULENCE | THESIS

PROF. RAJARAMAN GANESH

<https://ecloud.ipr.res.in/f/27407525>

STUDY OF MGB2 BASED SUPERCONDUCTING CURRENT FEEDER SYSTEM FOR FUSION DEVICES

NITIN BAIRAGI

Homi Bhabha National Institute, 2024

621.039.6(043.2) BAI B27921

FUSION TECHNOLOGY | THERMONUCLEAR REACTORS | TOKAMAKS | THESIS

DR. VIPUL L. TANNA

<https://ecloud.ipr.res.in/f/27608937>

LASER CLUSTER INTERACTION IN STRONG EXTERNAL MAGNETIC FIELD

KALYANI SWAIN

Homi Bhabha National Institute, 2024

621.375.826:539 (043.2) SWA B27925

QUANTUM ELECTRONICS | LASERS | LASER CLUSTER INTERACTION | THESIS

DR. MRITYUNJAY KUNDU

<https://ecloud.ipr.res.in/f/27681568>

STUDY OF EDGE PLASMA DYNAMICS IN TOKAMAK ADITYA-U

JANMEJAY UMESHBHAI BUCH

Homi Bhabha National Institute, 2024

533.95:621.039.6(043.2) BUC B27926

PLASMA DYNAMICS | TOKAMAKS | FUSION TECHNOLOGY | THESIS

DR. SURYA KUMAR PATHAK

<https://ecloud.ipr.res.in/f/27632706>

FPGA BASED REAL TIME DENSITY FEEDBACK CONTROL SYSTEM FOR ADITYA-U TOKAMAK

KIRANKUMAR G. PATEL

Homi Bhabha National Institute, 2024

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FEEDBACK CONTROL SYSTEM | ADITYA-U TOKAMAK | TOKAMAK | THESIS

DR. SURYA KUMAR PATHAK & DR. JINTO THOMAS

<https://ecloud.ipr.res.in/f/27902636>

STUDY OF ELECTRON DYNAMICS IN TOKAMAK PLASMA THROUGH ELECTRON CYCLOTRON
(EC) EMISSION USING RADIOMETER

VARSHA SIJU

Homi Bhabha National Institute, 2024

DR. S.K. PATHAK

<https://ecloud.ipr.res.in/f/30195431>
