VINAY KUMAR

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Academic Record

2021-Present: Research Scholar (Integrated Ph.D.)

International Centre for Theoretical Sciences¹-

Tata Institute of Fundamental Research,

Bengaluru, India

2018-2021: Bachelors of Science (Honors) Physics - First Division

Jamia Millia Islamia², Jamia Nagar, Delhi

2016-2018: Senior Secondary School - Aggregate Percentage = 88%

Apeejay School Noida, Uttar Pradesh,

CBSE Board

2016: Matriculation - CGPA = 10.0

Apeejay School Noida, Uttar Pradesh,

CBSE Board

Research

CORE AREA: Astrophysical Fluid Dynamics and Plasma Astrophysics

OTHER INTERESTS: Hydrodynamics,

PDEs and Spectral Methods,

Turbulence.

CODES USED: Dedalus (Python), Pencil-Code (Fortran)

OTHER TOOLS: Python, Mathematica, MATLAB, LATEX

Conferences Attended

7. Workshop on computational MHD with the PLUTO code July 2023

IISc Bangalore

6. MeetStatphysIndia - School on Nonlinear Physics and Statistical Physics June 2023

IIT Kharagpur

5. Turbulence: Problems at the Interface of Mathematics and Physics January 2023

ICTS

4. Bangalore School on Statistical Physics - XIII

July 2022

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¹Had concurrent offers from DAA-TIFR, IIT-K, IISER-K, IISER-P and IACS.

²Had concurrent offers from NISER, DTU, DU, JNU and BITS.

3. ICTS Summer School on Gravitational-Wave Astronomy

May-June 2022

ICTS

2. LIGO-Virgo Open Data Workshop

May 2022 ICTS

1. Waves, Instabilities and Mixing in Rotating and Stratified Flows

April 2022

ICTS

Outreach

CLIMATE CHAOS: Organised by: ICTS and Science Gallery Bengaluru

Venue: Jawaharlal Nehru Planetarium

March, 2023

Scholarships/Fellowships

ICTS-TIFR: Graduate School Fellowship

Department of Atomic Energy

Government of India

2021-Present

INSPIRE: Scholarship for Higher Education

Department of Science and Technology

Government of India

2018-2023

(Given up in 2021 for ICTS GS Fellowship)

Performance in National Level Competitive Exams

IIT JAM (2021): Organised by IISc Bangalore

All India Rank: 26 Scored 68/100 (Physics)

JEE ADVANCED (2018): Organised by IIT Kanpur

Percentile: 99.9283

Scored 123/360 (Physics, Chemistry, Mathematics)

Scored 85/120 in Physics

JEE MAIN (2018): Organised by CBSE

Percentile: 99.9948

Scored 203/360 (Physics, Chemistry, Mathematics)

Scored 102/120 in Physics

NEST (2018): Organised by NISER Bhubaneshwar

Percentile: 99.0653

Scored 99/180 (Physics, Chemistry, Mathematics)

BITSAT (2018): Organised by BITS Pilani

Scored 326/450 (Physics, Chemistry, Mathematics, English, Reasoning)