

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)

Talks and Conferences Attended

- Turbulence: Problems at the Interface of Mathematics and Physics
 January 2023
 ICTS
- Bangalore School on Statistical Physics - XIII
 July 2022
 ICTS
- ICTS Summer School on Gravitational-Wave Astronomy
 May-June 2022
 ICTS
- LIGO-Virgo Open Data Workshop
 May 2022
 ICTS
- Waves, Instabilities and Mixing in Rotating and Stratified Flows
 April 2022
 ICTS

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

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

Scholarships

INSPIRE: Scholarship for Higher Education
 Department of Science and Technology
 Government of India
 2018-2021

Performance in National Level Competitive Exams

IIT JAM (2021): Organised by IISc Bangalore
 AIR: 26
 Scored 68/100 (Physics)

JEE MAIN (2018): Organised by CBSE
 AIR: 5400
 Scored 203/360 (Physics, Chemistry, Mathematics)
 Scored 102/120 in Physics

JEE ADVANCED (2018): Organised by IIT Kanpur
 AIR: 11868
 Scored 123/360 (Physics, Chemistry, Mathematics)
 Scored 85/120 in Physics

NEST (2018): Organised by NISER Bhubaneswar
 AIR: 411
 Percentile: 99.0653
 Scored 99/180 (Physics, Chemistry, Mathematics)

BITSAT (2018): Organised by BITS Pilani
 Scored 326/450 (Physics, Chemistry, Mathematics, English, Reasoning)