

Priyadarshi Paul

Academic curriculum vitae (updated January 2024)

Personal details

Place & Year of Birth : Kolkata, India ; 1997

Current Address : ICTS, Survey No. 151, Shivakote, Hesaraghatta Hobli, Bengaluru, PIN – 560089, India

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Website : <https://www.icts.res.in/people/priyadarshi-paul>

Work Area

Theoretical High Energy Physics : Different aspects of quantum gravity, string theory, blackhole entropy, quantum field theory

Education & Work experience

International Centre for Theoretical Sciences, Bengaluru, India

Senior Research Scholar in Physical Sciences,

String Theory & Quantum Gravity group,

Supervisor : Prof. Suvrat Raju

August 2021 – present

International Centre for Theoretical Sciences, Bengaluru, India

PhD course-work (as part of PhD program), CGPA - 8.6

August 2019 – July 2021

Indian Association for the Cultivation of Science, Kolkata, India

Master of Science in Physical Sciences, CGPA - 8.41

(in collaboration with Jadavpur University)

July 2017 – June 2019

Scottish Church College under University of Calcutta, Kolkata, India

Bachelor of Science (Honours) in Physics, Overall grade - 68.5 %

July 2014 – July 2017

Talks and/or Short visits

Indian Strings Meeting 2023

December 2023

Institute for Theoretical Physics, University of Amsterdam

November 2023

EPFL, Lausanne

November 2023

ETH, Zurich

November 2023

Scuola Normale Superiore, Pisa

October 2023

HECAP Seminar, International Centre for Theoretical Physics, Trieste

October 2023

Gravity Research Group, Indian Association for the Cultivation of Science, Kolkata

July 2023

ICTS string seminar

May 2023

Teaching

Lectures on de Sitter holography

Student Talks on Trending Topics in Theory,

Indian Institute of Technology Mandi

July 2023

Teaching assistant

Quantum field theory II by Prof. Ashoke Sen,
International Centre for Theoretical Sciences

Fall 2022

Publications

- [1] T. Chakraborty, J. Chakravarty, V. Godet, P. Paul and S. Raju, *Holography of information in de Sitter space*, *JHEP* **12** (2023) 120 [2303.16316].
- [2] T. Chakraborty, J. Chakravarty, V. Godet, P. Paul and S. Raju, *The Hilbert space of de Sitter quantum gravity*, 2303.16315.
- [3] T. Chakraborty, J. Chakravarty and P. Paul, *Monogamy paradox in empty flat space*, *Phys. Rev. D* **106** (2022) 086002 [2107.06919].

Schools, Workshops and Conferences

The 38th Advanced School in Theoretical Physics :

QFT/String Theory in the times of COVID-19

Israel Institute for Advanced Studies

Jerusalem, Israel

December 2022 – January 2023

Kavli Asian Winter School (Online)

on Strings, Particles and Cosmology

International Centre for Theoretical Sciences

Bengaluru, India

January 2022

Indian Strings Meeting 2021 (Online)

A biennial international conference of String theorists

Indian Institute of Technology Roorkee

Roorkee, India

December 2021

National level tests

Tata Institute of Fundamental Research Graduate School Admission Test

Qualified

TIFR GS, 2019

Joint Entrance Examination Test

All India Rank : 76, Percentile 98.97

JEST, 2019

Graduate Aptitude Test in Engineering

All India Rank : 169, GATE score : 634

GATE, 2019

Computer Skills

Mathematica, Latex, FORTRAN, Python

Responsibilities

Organiser of ICTS Student-Postdoc Journal club

2022 – 2023

Organiser of ICTS In-house Symposium

May 2022

References

Prof. Suvrat Raju

International Centre for Theoretical Sciences,

Homepage : <https://www.icts.res.in/people/suvrat-raju>

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