Anjan Kar

Curriculum Vitae

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Research Gate in Linkedin D Orcid



Profile

I am a PhD student at the Department of Physics, Indian Institute of Technology, Kharagpur, India. I work in Gravitational Physics under the supervision of Prof. Sayan Kar.

Interest

Research Regular black holes, black hole shadow, gravitational lensing, quasinormal mode, perturbation, gravitational collapse and black hole thermodynamics.

Education

2022 - Now **Indian Institute of Technology**, Kharagpur, India

Doctoral Student, Gravitational Physics

Advisor: Prof. Sayan Kar

Thesis Title:

2020 – 2022 Indian Institute of Technology, Kharagpur, India

M.Sc., Physics, CGPA: 9.12

Advisor: Prof. Sayan Kar

Thesis Title: Shadows of rotating and non-rotating black holes

2017 – 2020 Vidyasagar University, Midnapore, India

B.Sc., Physics, CGPA: 8.83

Publications

GRG 2024 'Novel regular black hole: geometry, source and shadow'.

Anjan Kar and Sayan Kar, General Relativity and Gravitation, vol. 56, no. 5, p. 52, 2024, arXiv:2308.12155 [gr-qc]

Seminar and poster presentations

Rs day 2024 'New regular black holes: geometry, source and shadow' poster presented at the 'Research Scholar Day', an event organized by the Department of Physics, Indian Institute of Technology Kharagpur (IIT Kharagpur), India in 2024.

- ICGC 2023 'New regular black holes: geometry, matter source and shadow' seminar presented at '10th International Conference on Gravitation and Cosmology: New Horizons and Singularities in Gravity (ICGC 2023)' organised by Indian Institute of Technology Guwahati (IIT Guwahati) in December 2023 in Guwahati, India.
- GrAsCo 2023 'The regular black holes' seminar presented at 'Gravity Astrophysics and Cosmology Seminar', a weekly event at Indian Institute of Technology Kharagpur in April 2023.

Schools, conferences and workshops

ICGC 2023 '10th International Conference on Gravitation and Cosmology: New Horizons and Singularities in Gravity (ICGC 2023)' organised by Indian Institute of Technology Guwahati (IIT Guwahati) in December 2023 in Guwahati, India.

IAGRG school 'Indian Association of General Relativity and Gravitation (IAGRG) School on Gravitation and Cosmology 2023' organised by 'Internation Centre for Theoretical Science (ICTS Bengaluru)' in October 2023 in Bengaluru, India.

VBO 'IIA Kavalur black hole workshop: Theory and observation 2023' organised by Indian workshop Institute of Astrophysics (IIA Bangaluru) in June 2023 in Kavalur, Tamilnadu, India. 2023

IAGRG school 'Indian Association of General Relativity and Gravitation (IAGRG) School on Gravi-2022 (online) tation and Cosmology 2022' organised by Internation Centre for Theoretical Science (ICTS Bengaluru, India) in April 2022.

Teaching experience

Spring 2024 Condensed Matter Physics Lab (PH39202) at IIT Kharagpur

Position: Lab Instructor

Spring 2024 BTech Physics Laboratory (PH19003) at IIT Kharagpur

Position: Lab Instructor

Autumn 2023 Physics of Waves (PH11003) at IIT Kharagpur

Position: Theory TA

Spring 2023 BTech Physics Laboratory (PH19003) at IIT Kharagpur

Position: Lab Instructor

Skills

Programing: Python, Pandas, Mathematica

Language: Bengali (native), English (fluent), Hindi (basic), German (basic)

Writing: Writing reports and other scientific documents with LATEX $\,$