

CONTACT

subhadipsau2@gmail.com

 \bigcirc +91 8617362032

→ +91 8617362032

0000-0002-6271-1321

Subhadip Sau

SKILLS

₽Т _Е Х	7+ yrs
Mathematica	7+ yrs
Python	3+ yrs
Linux	5+ yrs
Teaching	5+ yrs

SUBHADIP SAU

Assistant Professor (Ph.D.)

EDUCATION

Ph. D. - Physics

2017 - 2023

Indian Association for the cultivation of Science (IACS) - Kolkata, West Bengal (India)

Thesis title: "Search for modified gravity theories through the shadow of compact objects."

M. Sc. - Physics

2015 - 2017

Indian Institute of Technology (IIT) - Kharagpur, West Bengal (India)

Masters' Thesis work on "Indirect detection of Dark Matter".

B. Sc. - Physics

2012 - 2015

RamaKrishna Mission Residential College, Narendrapur - Kolkata, West Bengal (India)

Honours in Physics. The minor subjects were Mathematics and Chemistry.

WORK EXPERIENCE

Assistant Professor (W.B.E.S)

Aug 20 - Ongoing

Jhargram Raj College, Jhargram (West Bengal)

Taught courses both in offline and online mode. Various courses such as Quantum Mechanics, Mathematical Physics, Electromagnetic theory, Thermodynamics, Relativity etc. has been taught by me along with the laboratory classes.

Summer Project Guide

Jun 23 - Jul 23

Jhargram Raj College, Jhargram (West Bengal)

Guided a summer project titled, "Some aspects of spherically symmetric spacetime".

Teaching Assistant

Jan 20 - Jul 20

Indian Association for the Cultivation of Science, Kolkata (West Bengal)

Taken classes and solved assignments and prepared the solutions in partial TEX for the courses Electricity and Magnetism and Geometrical Optics.

ACHIEVEMENTS

GATE

Physics

Qualified in 2017.

NET

Physics

Qualified in 2016.

JEST

Physics

Qualified in 2015, 2016, 2017.

JAM

Physics

Qualified in 2015

Guest Faculty

All India Physics Forum, Midnapore

Taken classes and prepared assignments in AT_{FX} .

PUBLICATIONS

- Implications of axionic hair on shadow of M87*
 Indrani Banerjee, Subhadip Sau, Soumitra SenGupta
 Phys.Rev.D 101 (2020) 10, 104057, arXiv: 1911.05385
- Imprints of the Janis-Newman-Winicour spacetime on observations related to shadow and accretion

Subhadip Sau, Indrani Banerjee, Soumitra SenGupta Phys.Rev.D 102 (2020) 6, 064027, arXiv: 2004.02840

- Tidal heating of black holes and exotic compact objects on the brane
 Sumanta Chakraborty, Sayak Datta, Subhadip Sau
 Phys.Rev.D 104 (2021) 10, 104001, arXiv:2103.12430
- Signatures of regular black holes from the shadow of Sgr A* and M87*
 Indrani Banerjee, Subhadip Sau, Soumitra SenGupta
 JCAP09(2022)066, arXiv:2206.12125
- Shadow of regular black hole in scalar-tensor-vector gravity theory
 Subhadip Sau, John W. Moffat

 Phys.Rev.D 107 (2023) 12, 124003, arXiv:2211.15040
- Do shadows of Sgr A* and M87* indicate black holes with a magnetic monopole charge?

Indrani Banerjee, Subhadip Sau, Soumitra SenGupta arXiv:2207.06034

WORKSHOPS & CONFERENCES

Python Programming in Astronomy, Astrophysics and Cosmology (PPAAC)

July 2023

Aug 17 - Jul 21

IUCAA, Pune & GLA University, Mathura

Attended all the lectures and hand-on session in the workshop.

Advances in Astroparticle Physics and Cosmology(AAPCOS)

Jan 2023

Conducted by SINP, Kolkata

Participation and Oral presentation

32nd IAGRG meeting IISER Kolkata

Dec 2022

Participation and poster presentation