

Name: Dr. Biplob Sarkar
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Educational Qualification(s):

Qualification(s)	University
M. Sc. PHYSICS	TEZPUR UNIVERITY
PhD	IIT GUWAHATI

Experience in years:

Academic :

Details:

Sl. No.	Organization	Position Held	Duration	
			From	To
1	IIT GUWAHATI	RESEARCH SCHOLAR	JULY 2011	June 2018
2	IIT GUWAHATI	TEACHING ASSISTANT	Jan 2013	May 2015

Other Information:

a) **Publication details.**

Journal Publications:

1. *Standing shocks in magnetized dissipative accretion flow around black holes,*

Biplob Sarkar and Santabrata Das, 2018, Journal of Astrophysics and Astronomy, 39, 3

2. *Properties of magnetically supported dissipative accretion flow around black holes with cooling effects,*

Biplob Sarkar, Santabrata Das and Samir Mandal, 2018, Monthly Notices of the Royal Astronomical Society, 473, 2415

3. *Dynamical structure of magnetized dissipative accretion flow around black holes,*

Biplob Sarkar and Santabrata Das, 2016, Monthly Notices of the Royal Astronomical Society, 461, 190

4. *On the possibilities of mass loss from an advective accretion disc around stationary black holes,*

Santabrata Das, Indranil Chattopadhyay, Anuj Nandi and **Biplob Sarkar**, 2014, Bulletin of the Astronomical Society of India, 42, 39

Conference Proceedings:

1. *Shocks in magnetically supported accretion flow around black holes,*

Biplob Sarkar and Santabrata Das, 2015, Astron. Soc. India Conf. Ser., 12, 91

2. *Dissipative standing shocks in accretion flows around black holes: a self-consistent analytical study,*

Biplob Sarkar and Santabrata Das, 2013, Astron. Soc. India Conf. Ser., 8, 143

(b) Details of Seminar/Workshop/Conference.

Oral Presentations:

1. *“Shocks in magnetically supported accretion disc”,* **Biplob Sarkar** and Santabrata Das, in Accretion Onto Black Holes, A topical conference, International Center, Goa, September 5-7, 2013 organized by TIFR.

2. *“Effects of magnetic fields on shocks in BH accretion discs”,* **Biplob Sarkar** and Santabrata Das, in the conference, Hard X-ray Astronomy: Astrosat and Beyond, International Center, Goa, September 24-26, 2014 organized by TIFR.

3. *“Magnetically supported viscous accretion flow around Black Holes”,* **Biplob Sarkar**, Santabrata Das and Samir Mandal, in National conference on Recent Trends in the Study of Compact Objects: Theory and Observation (RETCO-II), 6-8 May, 2015, ARIES, Nainital, India.

4. *“Accretion flow around black holes”*, **Biplob Sarkar**, in a one day symposium on 100 years of General Relativity: Where do we stand?, 13 February, 2016, Department of Physics, IIT Guwahati.

5. *“Magnetically supported accretion flow around black holes with shocks”*, **Biplob Sarkar**, in the Department Day, Physics, 12 March, 2016, organized by Research Scholar Forum (RSF), Department of Physics, IIT Guwahati.

6. *“Implications of standing shocks in magnetized accretion discs around black holes”*, **Biplob Sarkar** and Santabrata Das, in the conference, ‘Wide Band Spectral and Timing Studies of Cosmic X-ray Sources’, January 10-13, 2017, organized by TIFR, Mumbai, India.

7. *“Hints from standing shocks in magnetized accretion flows around black holes”*, **Biplob Sarkar**, in the Annual Physics Meet, 28 January, 2017, organized by Research Scholar Forum (RSF), Department of Physics, IIT Guwahati.

8. *“Properties of magnetically supported dissipative accretion flow around black holes”*, **Biplob Sarkar**, Santabrata Das and Samir Mandal, in the 29th meeting of the Indian Association for General Relativity and Gravitation (IAGRG), May 18-20, 2017, organized by Department of Physics, IIT Guwahati, Assam, India.

9. *“A study of shocks in magnetized dissipative accretion flow around Black Holes”*, **Biplob Sarkar**, in the Physics Activity Program, April 20, 2018, organized by Department of Physics, Tezpur University, Assam, India.

Poster Presentations:

1. *“Self-consistent study of dissipative standing shocks in accretion flows around black holes”*, **Biplob Sarkar** and Santabrata Das, in National conference on Recent Trends in the Study of Compact Objects: Theory and Observation, 11-13 March, 2013, Indian Institute of Technology Guwahati, Assam, India.

2. “*Astrophysical flows around black holes*”, Indu Kalpa Dihingia, Ramiz Aktar and **Biplob Sarkar**, in the Research Conclave’ 15 organized by Students’ Academic Board, 23-26 March, 2015, IIT Guwahati.

3. “*Accretion around Black Hole, A Journey*”, Indu Kalpa Dihingia, Ramiz Aktar and **Biplob Sarkar**, in the Research Conclave’ 16 organized by Students’ Academic Board, 17-20 March, 2016, IIT Guwahati.

4. “*Dissipative accretion flow around Black Holes*”, Indu Kalpa Dihingia, Ramiz Aktar and **Biplob Sarkar**, in the Research Conclave’ 17 organized by Students’ Academic Board, 16-19 March, 2017, IIT Guwahati.

WORKSHOP/SCHOOL ATTENDED

1. Quality Improvement Program on Computational Techniques in Physics, 1-6 August, 2011, Department of Physics, IIT Guwahati.

2. Workshop on Multiwavelength Astronomy with Astrosat, 9-12 January, 2012, IIST, Trivandrum.

3. IUCAA Sponsored Introductory Workshop on Relativistic Astrophysics (IWRAP), 21-23 August, 2014, Department of Physics, Gauhati University, Guwahati.

(c). Professional membership of reputed bodies if any.

Admitted as *Life Member* to the Physics Academy of the North East (PANE).