VIDYASAGAR COLLEGE
39 SANKAR GHOSH LANE
KOLKATA

Name : Sourav Roy Chowdhury

1	Name	Sourav Roy Chowdhury		
2	Designation	SACT-I		
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5	Date of Joining	31/08/2015		
Academic qualifications				
6	Degree	Subject	University	Year
	Ph.D	Physics	Indian Institute of Engineering Science and Technology (IIEST)	2020
	M.Phil			
	MA/M.sc	Physics	West Bengal State University	2012
	BA/B.Sc	Physics	University of Calcutta	2010
PH.D. DETAILS				
7	Title of the Thesis	Einstein's Field Equation & Their Application in the Domain of Finslerian Geometry		
	Field of specialization under subject/ discipline	Astrophysics, Gravitational Waves, Fast Radio Bursts.		
8	PREVIOUS POSITIONS/Engagement			
9	Google scholar page:	https://scholar.google.com/citations?user=Tc4w0PoAAAAJ&hl=en		
10	ORCID ID	0000-0003-2802-4138		
11	HONOURS AND AWARDS			
12	CURRENT RESEARCH PROJECT/Field of Research	◦ Stochastic gravitational wave background from astrophysical sources. ◦ Compact binary coalescences (BBH and BH-NS binaries). ◦ Gravitational waves and electromagnetic counterparts from magnetar binaries. ◦ Semi-analytical population synthesis for compact object mergers and formation pathway of Intermediate-mass black hole. ◦ Bayesian parameter estimation and machine learning in astrophysical studies. ◦ Classification of Fast Radio Bursts.		
13	TECHNICAL UNDERSTANDING AND EXPERIENCE	Member of Lunar Gravitational-wave Antenna (LGWA).		
14	SUMMARY OF RESEARCH EXPERIENCE			
15	EXPERIENCE OF PROJECT MANAGEMENT			

16	COMPLETE LIST OF PUBLICATIONS (Maintain Harvard Format)	◦ The Lunar Gravitational-wave Antenna: Mission Studies and Science Case. LGWA collaboration. (Published in JCAP 01, 108 (2025)) ◦ Stochastic gravitational wave background due to core collapse resulting in a neutron star. Sourav Roy Chowdhury, Maxim Khlopov. (Published in Phys. Rev. D 110, 063037 (2024).) ◦ Finslerian extension of an anisotropic strange star in the domain of modified gravity. Sourav Roy Chowdhury, Debabrata Deb, Farook Rahaman, Saibal Ray. (Published in Eur. Phys. J. C 84, 472 (2024).) ◦ Polarization of gravitational waves in modified gravity. Maxim Khlopov, Sourav Roy Chowdhury. (Published in Symmetry 15, 832 (2023)) ◦ The stochastic gravitational wave background from magnetars. Sourav Roy Chowdhury, Maxim Khlopov. (Published in Universe 7, 381 (2021).) ◦ Gravitational waves in the extended theory of gravity. Sourav Roy Chowdhury, Maxim Khlopov. (Published in Int. J. Mod. Phys. D 30, 2140011 (2021)) ◦ Noncommutative black hole in the Finslerian spacetime. Sourav Roy Chowdhury, Debabrata Deb, Farook Rahaman, Saibal Ray, B.K. Guha. (Published in Class. Quantum. Gravit. 38, 145019 (2021).) ◦ Anisotropic strange star in Finsler geometry. Sourav Roy Chowdhury, Debabrata Deb, Farook Rahaman, Saibal Ray, B.K. Guha. (Published in Int. J. Mod. Phys. D 29, 2050001 (2020)) ◦ Charged anisotropic strange stars in Finslerian geometry. Sourav Roy Chowdhury, Debabrata Deb, Farook Rahaman, Saibal Ray, B.K. Guha. (Published in Eur. Phys. J. C 79, 547 (2019)) ◦ A new model for strange stars. Debebrata Deb, Sourav Roy Chowdhury, Saibal Ray, Farook Rahaman. (Published in Gen. Relativ. Gravit. 50, 112 (2018)) ◦ Anisotropic strange stars in Tolman–Kuchowicz spacetime. M. K. Jasim, Debabrata Deb, Saibal Ray, Y.K.Gupta, Sourav Roy Chowdhury (Published in Eur. Phys. J. C 78, 603 (2018)) ◦ Relativistic model for anisotropic strange stars D.Deb, Sourav Roy Chowdhury, Saibal Ray, Farook Rahaman, B.K. Guha. (Published in Annals of Physics 387, 239 (2017)) ◦ Spherically symmetric charged compact stars. S.K.Maurya, Y.K.Gupta, Saibal Ray, Sourav Roy Chowdhury. (Published in Eur. Phys. J. C 75, 225 (2015))
17	Extracurricular Activities	
18	Link to personal website (if any)	