Curriculum Vitae

Name: DR. Amrita Bhattacharya

Father's Name: DR. Amal Bhattacharya

Date of Birth: 26th January,1985

Designation: Assistant Professor in Mathematics

Office Address: Department of Mathematics, Kidderpore College, 2,3 Pitamber Sircar Lane, Kolkata- 700023

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Academic Qualification:

Name of Examination	Name of Board/ University	Year of passing	Subject	Division	Percentage of marks
Madhyamik	WBBSE	2001	Beng, Eng, Math, His, Geo, Life Science, Physical Science, Addl. Math	1st	89.5
H. S	WBCHSE	2003	Beng, Eng, Phys, Chem, Math, Bio	1st	83.9
B.Sc.	Jadavpur University	2006	Mathematics (Hons), Statistics, Comp. Sc	1st	82
M.Sc.	Jadavpur University	2008	Mathematics (Pure)	1st class first along with science faculty topper	86.9
NET		2009 (June)	-	CSIR- JRF	All India rank -184

Ph.D.: Awarded by the University of Calcutta on 28th June, 2016

Topic: Bending of light in the wormhole and galactic halo spacetime.

Research and Publications:

1. **Amrita Bhattacharya**, Bijan Bagchi, Guzel M. Garipova, Ruslan Isaev, AlexanderA. Potapov and Kamal K. Nandi; Indian J. Phys. (Springer), 86, 463 (2012).
2. **Amrita Bhattacharya**, Ramil Izmailov, Ettore Laserra and Kamal K. Nandi; Class. Quantum Grav. 28, 155009 (2011).
3. **Amrita Bhattacharya**, Guzel M. Garipova, Ettore Laserra, Arunava Bhadra and Kamal K. Nandi; J.Cosmology & Astroparticle Physics (JCAP), 02: 028(2011).
4. **Amrita Bhattacharya**, Ruslan Isaev, Massimo Scalia, Carlo Cattani and Kamal K. Nandi; J.Cosmology & Astroparticle Physics (JCAP), 009: 004 (2010).
5. **Amrita Bhattacharya** and Alexander A. Potapov; Mod. Phys.Lett. A, 25, 2399 (2010).
6. **Amrita Bhattacharya**, Ilnur Nigmatzyanov, Ramil Izmaliov and Kamal K. Nandi; Class. Quantum Grav. 26, 235017 (2009).
7. K.K. Nandi,a,b R.N. Izmailov,a,1 E.R. Zhdanova and **Amrita Bhattacharya**, Strong field lensing by Damour-Solodukhin Wormhole; Journal of cosmology and Astroparticl Physic (JCAP07(2018)027.
8. **Amrita Bhattacharya** and Alexander A. Potapov, On Bozza deflection angle in the strong field of the massless Ellis-Bronnikov wormhole, Modern Physics Letters A, Vol. 34 (2019) 1950040.
9. Regina Lukmanova and **Amrita Bhattacharya**, Comments on 'Phantom wormholes in Einstein–Maxwell-dilaton theory by Goulart (2018 Class. Quantum Grav. 35 025012).
10. R. Kh. Karimov, R. N. Izmailov, **Amrita Bhattacharya**, K. K. Nandi, Accretion disks around the Gibbons–Maeda–Garfinkle–Horowitz–Strominger charged black holes, Eur. Phys. J. C (2018) 78:788.
11. Ramil N. Izmailov, **Amrita Bhattacharya**, Eduard R. Zhdanov, Alexander A. Potapov, and Kamal K. Nandi, can massless wormholes mimic a Schwarzschild black hole in the strong field lensing? Eur. Phys. J. Plus (2019) 134: 384.
12. **Amrita Bhattacharya**, Fluid Analogy: Acoustic Wormhole, International Journal of scientific development and research, Vol 7 Issue 12, December-2022.

13. **Amrita Bhattacharya,** Light Bending and Stability Analysis in Weyl Conformal Gravity, International Journal of Multidisciplinary Research, Vol 5, Issue 5, September-October 2023.
14. **Amrita Bhattacharya**, Discussion on strong field lensing by wormholes as black hole foils, International Journal of scientific development and research, Volume 9 Issue 2, February,2024.

Paper Presentation / Participation in National/International seminars:

Sl. No	Organizer	Theme	Title of Paper	Date	Place
1.	Department of Mathematics, University of North Bengal	Recent Development in Mathematics	Light Bending in Ellis Wormhole	8^{th} to 10^{th} January,2010	Siliguri
2.	Department of Mathematics, Jadavpur University	ICMAM	An introduction to Non-Singular Wormhole	12^{th} to 14^{th} January,2012	Kolkata
3.	Calcutta Mathematical Society	International Webinar on Recent Trends of Mathematical Science (IWRTMS 2022)	Massless Ellis - Bronnikov Wormhole Study of Deflection Angle	25^{th} to 26^{th} February, 2022	Kolkata
4.	Department of Mathematics, Jadavpur University	ICMAM	Damour-Solodukhin wormhole: a discussion on strong field lensing	9^{th} to 11^{th} October, 2023	Kolkata

Date:-

Place:

(Amrita Bhattacharya)