DR. RAHUL GHOSH

PROFILE

E-MAIL:
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DATE OF JOINING
01.11.2019

DESIGNATION

ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS.

QUALIFICATION

- 2017: **Ph.D**. in Mathematics (Cosmology), IIEST, Shibpur.
- 2009: **M.Sc**. in Applied Mathematics from B.E.S.U., Shibpur.

WORK EXPERIENCE

November, 2019-Continued: As Assistant Professor, P. D. Women's College, Club Road, Jalpaiguri, West Bengal.
2011-2019: CWTT in Mathematics in BhairabGanguly College, Belghoria.

RESEARCH INTEREST

Cosmology, Quantum Gravity, Modified Gravity Theories, Partial Differential Equation

LIST OF PUBLICATION

1. **Ghosh, R**., Chattopadhyay, S., & Debnath, U. (2012). A dark energy model with generalized uncertainty principle in the emergent, intermediate and logamediate scenarios of the universe. *International Journal of Theoretical Physics*, *51*, 589-603. https://doi.org/10.1007/s10773-011-0939-z
2. **Ghosh, R**., & Chattopadhyay, S. (2012). The generalized second law of thermodynamics in f (R) gravity for various choices of scale factor. *Journal of*

Theoretical and Applied Physics, *6*, 1-8. DOI: 10.1186/2251-7235-6-27.

3. **Ghosh, R**., Pasqua, A., & Chattopadhyay, S. (2013). Generalized second law of thermodynamics in the emergent universe for some viable models of f (T) gravity. *The European Physical Journal Plus*, *128*, 1-11. DOI 10.1140/epjp/i2013-13012-6.
4. **Ghosh, R**., & Debnath, U. (2014). Reconstruction of f (G) gravity with ordinary and entropy-corrected (m, n)-type holographic dark energy model. *The European Physical Journal Plus*, *129*, 1-9. DOI :10.1140/epjp/i2014-14081-7.
5. Chattopadhyay, S., &**Ghosh, R.** (2012). A study of generalized second law of thermodynamics in modified f (R) Horava–Lifshitz gravity. *Astrophysics and Space Science*, *341*, 669-674. DOI 10.1007/s10509-012-1088-4.
6. **Ghosh, R**., Pasqua, A., & Chattopadhyay, S. (2013). Behavior of interacting Ricci dark energy in logarithmic f (T) gravity. *Journal of Theoretical and Applied Physics*, *7*, 1-8. DOI: 10.1186/2251-7235-7-48.
7. Chattopadhyay, S., &**Ghosh, R**. (2013). A study on the role of f (G) gravity on the emergent universe. *Astrophysics and Space Science*, *345*, 11-15. DOI 10.1007/s10509-013-1367-8.
8. **Ghosh, R**., Debnath, U., & Chakraborty, S. (2021). Reconstructions of f (P) gravity from (m, n) type ordinary and entropy-corrected holographic and Pilgrim dark energy models. *International Journal of Modern Physics A*, *36*(29), 2150198. DOI: 10.1142/S0217751X21501980

SEMINARS AND CONFERENCE ATTENDED

1. **Presented** a paper in a Two-Day International Seminar on **Mathematical Analysis and Riemannian Geometry (ISMARG-2021)** held on 29th-30th September, 2021 and organized by Department of Mathematics, Bhairab Ganguly College in association with Internal Quality Assurance Cell (IQAC) & College Research Colloquium (CRC).