

LIST OF PUBLICATIONS/ SEMINARS

List of Research articles published in the journals.

1. **Universe dominated by dark energy in presence of Polytropic gas** with S. Basak (2018). *Journal of Emerging Technologies and Innovative Research*, 5(12), 196-198. ISSN: 2349-5162, (UGC approved, Sl. No.-63975).
2. **Correspondence between the quintessence and dilaton scalar fields with the Polytropic gas dark energy model** with S. Basak, (2019). *International Journal of Advanced Scientific Research and Management*, 4(1), 169-171. ISSN 2455-6378, (UGC approved, Sl. No.-63502).
3. **K-Essence Polytropic gas dark energy model** with S. Basak (2018). *International Journal of Current Advanced Research*, 7(11), 16377-16378. ISSN 2319-6475 (E) / 2319-6505 (P), (UGC approved, Sl. No.-43892). DOI: <http://dx.doi.org/10.24327/ijcar.2018.16378.3025>.
4. **Corresponding between the Polytropic gas dark energy model and Tachyon scalar field** with Basak, S. (2018). *International Journal of Advanced Scientific Research and Management*, 3(12), 154-156. ISSN 2455-6378, (UGC approved, Sl. No.-63502).
5. **Reconstruction of the Holographic Polytropic Gas Dark Energy Model in the Flat FRW Universe** with K.P. Singh (2020). *International Journal of Advanced Research in Engineering and Technology*. Volume-11, Issue-10, pp. 241-246, Article ID: IJARET_11_10_025. DOI: 10.34218/IJARET.11.10.2020.025. (Scopus Indexed and UGC Care listed, SL. No.-96521100944103)
6. **Modified Polytropic $f(T)$ gravity model** with Basak, S. (2018). *Journal of Emerging Technologies and Innovative Research*, 5(12), 374-376. ISSN: 2349-5162, (UGC approved, Sl. No.-63975)
7. **LRS Bianchi Type-1 Polytropic gas dark energy models in Cosmology** with Basak, S. (2018). *International Journal of Research and Analytical Reviews*, 5(4), 701-704. ISSN 2348-1269(E)/2349-5138(P), (UGC approved, Sl. No.-43602).

8. **Polytropic gas has plausibility in preventing big rip singularity** with K.P. Singh (2019). *International Journal of Research and Analytical Reviews*, 6(2), 688-691 ISSN 2348-1269(E)/2349-5138(P), (UGC approved, Sl. No.-43602).
9. **Thermodynamic behavior of the Polytropic Gas in Cosmology** with K.P. Singh (2020). "*Ratio Mathematica*" (UGC Care listed, SL. No.-352), Volume-39, pp. 261-268, December 2020. ISSN 1592-7415, eISSN 82-8214.

List of Research articles presented in the Seminars /Conferences

1. **Thermodynamic behavior of the Polytropic Gas in Cosmology**
Presented in the 4th National Colloquium on Advances in Mathematical Sciences organized by the Department of Mathematics, DM College of Science, in collaboration with the Department of Mathematics, DM College of Arts, DM University, on February 28 and 29, 2020
2. **Reconstruction of the Holographic Polytropic Gas Dark Energy Model in the Flat FRW Universe**
Presented in the International Conference on New Frontiers in Engineering, Science, Law, Management, Humanities and Social Sciences 2020 organized by Eudoxia Research Centre at Gauhati University on February 22 and 23, 2020
3. **Universe Dominated by the Polytropic Gas as a Dark Energy in Cosmology**
Presented in the National Conference on Emerging trends in Advanced Mathematical Sciences & its Interdisciplinary Areas organized by Department of Mathematical Sciences, Bodoland University, on February 21 and 22, 2020
4. **Reconstruction of the New Agegraphic Polytropic Gas Dark Energy Model in the Flat FRW Universe**
Presented in the International Conference on Mathematic, Statistics and Applied Science organized by Institute for Scientific and Engineering Research at Guwahti, on 18th January, 2020