

LIST OF PUBLICATIONS (RESEARCH PAPERS)

➤ PUBLISHED BOOK:

Author(s) : Dr. Chayan Ranjit

Title: The Higher Dimensional Universe; A Cosmological View.

Publisher: Lambert Academic Publishing, ISBN-13 :978-3-330-02498-4

Year: 2016

➤ PUBLISHED PAPER(S):

Paper No.	TITLE	AUTHORS	JOURNAL DETAILS (UGC Approved)	Publishing Company
1.	<i>Higher Dimensional Cosmology with Some Dark Energy Models in Emergent, Logamediate and Intermediate Scenarios of the Universe</i>	1. Chayan Ranjit 2. Shuvendu Chakraborty 3. Ujjal Debnath	International Journal of Theoretical Physics (2012) 51:2180-2207 DOI: 10.1007/s10773-012-1099-5	Springer
2.	<i>Study of a tachyonic field and its State-finder diagnostics in various scenarios of the anisotropic universe</i>	1. Chayan Ranjit 2. Surajit Chattopadhyay	Canadian Journal of Physics 90: 97-105 (2012) DOI: 10.1139/P11-143	NRC Research Press
3.	<i>Observational constraints of modified Chaplygin gas in loop quantum cosmology</i>	1. Shuvendu Chakraborty 2. Ujjal Debnath 3. Chayan Ranjit	The European Physical Journal C (2012) 72:2101 DOI: 10.1140/epjc/s10052-012-2101-3	Springer
4.	<i>Variable Modified Chaplygin Gas in Anisotropic Universe with Kaluza-Klein Metric.</i>	1. Chayan Ranjit 2. Shuvendu Chakraborty 3. Ujjal Debnath	International Journal of Theoretical Physics (2013) 52:862-876 DOI: 10.1007/s10773-012-1395-0	Springer
5.	<i>Observational constraints of homogeneous higher-dimensional cosmology with modified Chaplygin gas</i>	1. Chayan Ranjit 2. Shuvendu Chakraborty 3. Ujjal Debnath	The European Physical Journal Plus (2013) 128: 53 DOI: 10.1140/epjp/i2013-13053-9	Springer
6.	<i>Observational study of higher dimensional magnetic universe in non-linear electrodynamics</i>	1. Chayan Ranjit 2. Shuvendu Chakraborty 3. Ujjal Debnath	Astrophys Space Science (2013) 346:291-299 DOI: 10.1007/s10509-013-1441-2	Springer
7.	<i>Observational constraints of modified Chaplygin gas in RS II Brane.</i>	1. Chayan Ranjit 2. Prabir Rudra 3. Sujata Kundu	Astrophys Space Science 347:423-431, (2013) DOI: 10.1007/s10509-013-1526-y	Springer

8.	<i>How effective is new variable modified Chaplygin gas to play the role of dark energy—a dynamical system analysis in RS II brane model</i>	1. Prabir Rudra 2. Chayan Ranjit 3. Sujata Kundu	Astrophys Space Science (2013) 347:433–444 DOI: 10.1007/s10509-013-1531-1	Springer
9.	<i>Constraining Parameters of Generalized Cosmic Chaplygin Gas in Loop Quantum Cosmology</i>	1. Chayan Ranjit 2. Ujjal Debnath	Astrophys Space Science 354:2126 (2014) DOI: 10.1007/s10509-014-2126-1	Springer
10.	<i>Reconstruction of Einstein-Aether Gravity from other Modified Gravity Models</i>	1. Chayan Ranjit 2. Ujjal Debnath	The European Physical Journal Plus (2014) 129: 235 DOI: 10.1140/epjp/i2014-14235-7	Springer
11.	<i>Dynamical System Analysis of Modified Chaplygin Gas in Einstein-Aether Gravity</i>	1. Chayan Ranjit 2. Prabir Rudra 3. Sujata Kundu	The European Physical Journal Plus (2014) 129: 208 DOI: 10.1140/epjp/i2014-14208-x	Springer
12.	<i>Study of Some Parameters of Modified Chaplygin Gas in Galileon Gravity Theory from Observational Perspective</i>	1. Chayan Ranjit 2. Prabir Rudra 3. Ujjal Debnath	Canadian Journal of Physics (2014) 92: 1667–1675 DOI: 10.1139/cjp-2014-0287	NRC Research Press
13.	<i>Red-shift parameterizations of dark energy and observational constraint on their parameters: Galileon gravity as background</i>	1. Prabir Rudra 2. Chayan Ranjit 3. Sujata Kundu	Modern Physics Letters A Vol. 30, No. 31 (2015) 1550151 DOI: 10.1142/S0217732315501515	World Scientific
14.	<i>Observational data fitting to constrain Variable Modified Chaplygin Gas in the background of Horava-Lifshitz Gravity</i>	1. Chayan Ranjit 2. Prabir Rudra	International Journal of Theoretical Physics (2016) 55:636–647 DOI 10.1007/s10773-015-2701-4	Springer
15.	<i>A Systematic Approach With Data Fusion Technique in RFID Sensor Network Using Neuro-Fuzzy Technique</i>	1. Sujata Kundu 2. Chayan Ranjit	International Journal of Computer Applications (2016) 139 : 9 DOI 10.5120/ijca2016909045	Foundation of Computer Science (FCS), NY, USA
16.	<i>Study of Some Cosmological Parameters for Interacting New Holographic Dark Energy Model in $f(T)$ Gravity</i>	1. Chayan Ranjit 2. Prabir Rudra	International Journal of Modern Physics D (2016) Vol. 25, No. 1 (2016) 1650008 DOI: 10.1142/S0218271816500085	World Scientific
17.	<i>Analysis of Interacting Entropy-Corrected Holographic and New Agegraphic Dark Energies</i>	1. Chayan Ranjit 2. Ujjal Debnath	International Journal of Modern Physics D Vol. 27, No. 4 (2018) 1850035 DOI: 10.1142/S0218271818500359	World Scientific
18.	<i>Observational constraints on Energy Momentum Squared Gravity through cosmic chronometers and Supernovae Type Ia data</i>	1. Chayan Ranjit 2. Prabir Rudra 3. Sujata Kundu	Annals of Physics 428 (2021) 168432 Doi: 10.1016/j.aop.2021.168432	Elsevier

19.	<i>Compact stellar models in modified gravity</i>	1. I. G. Salako 2. Chayan Ranjit 3. M. Khlopov 4. Saibal Ray 5. Utpal Mukhopadhyay	International Journal of Modern Physics D (2021) 2140003 (16 pages) DOI: 10.1142/S0218271821400034	World Scientific
20.	<i>Analysis of different scenarios with New Tsallis Holographic Dark Energies and Bulk Viscous uid in the framework of Chern-Simons modified gravity</i>	1. Chayan Ranjit 2. Sayeedul Islam 3. Surajit Chattopadhyay 4. Ertan Gudekli	International Journal of Modern Physics A Vol. 36, No. 19 (2021) 2150151 (25 pages) DOI: 10.1142/S0217751X21501517	World Scientific Publishing Company
21.	A supply chain of a coastal biomass incorporating fuzzy deterioration and freshness under dynamic unit price	1. Rumpa Das 2. Chayan Ranjit 3. Manas Kumar Maiti	APPLICATION OF SOFT COMPUTING SN - 1433-7479 Online Published: 08-02-2024 DOI: https://doi.org/10.1007/s00500-023-09615-6	Springer
22.	Cosmological effects on $f(R, T)$ gravity through a nonstandard theory	1. Arijit Panda 2. Saibal Ray 3. Goutam Manna 4. Surajit Das 5. Chayan Ranjit	International Journal of Modern Physics D (2024) 2450015 DOI: 10.1142/S0218271824500159	World Scientific Publishing Company

➤ CONFERENCES/ SEMINARS/ WORKSHOP:

1. Participated with a Poster Presentation in the '**International Conference on Modern Perspectives of Cosmology and Gravitation**' held at ISI, Kolkata during February 07-11, 2012.
2. Participated a two days '**LaTeX WORKSHOP**' program, offered by IIT Bombay and funded by National Mission on Education through ICT, MHRD, Govt. of India during March'2013.
3. Attained a Workshop on '**Observational Aspects of Astrophysics and Cosmology**' organized by IRC Kolkata and Department of Physics, Visva-Bharati, Santinikatan during November 3-4, 2014.
4. **Invited Talk** presented in the seminar '**Recent Trends in Cosmology & Future Challenges**' organized by Department of Physics (UG & PG), Prabhat Kumar College, Contai & Egra S.S.B. College, Egra, Purba Medinipur-721429, held on : 03-04/12/2015.

5. Participated in the two-days **“International Seminar on Cosmology, Relativity and Gravity Waves”** organized by The Asiatic Society, Kolkata, held on: 15-16th Feb, 2016.
6. Attained a **“One Day Symposium on New UG Syllabus (CBCS) of Mathematics”** organized by Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, Held On 13.09.2017.
7. Participated a **“Orientation Programme OP-119”** organized by 'UGC-HRDC, University Of Calcutta' from July 17- August 12, 2017.
8. **Acted as a Convener of a ‘Workshop on Experimental Physics and Mathematics’** on 7th Feb., 2018 organized by Dept. of Physics, Mathematics & IQAC cell, Egra S.S.B. College, Egra, Purba Medinipur.
9. Participated a **“1st Refreshers Course on Mathematical Science & Computing”** organized by 'UGC-HRDC, University of Burdwan' from 24th July-13th August, 2018.
10. **Acted as a Joint-Convener of a Two days International Seminar on ‘Classical to Quantum Computing’** on 15th Feb. to 16th Feb., 2020 organized by Dept. of Physics, Mathematics & Computer Science, Egra S.S.B. College, Egra, Purba Medinipur.
11. Participated one-week **Faculty Development Program “Effectiveness Methodology & Assessment of Digital Education System”** organized by Modern Institute of Engineering & Technology, Bandel, Hooghly 712123, West Bengal' from 8th June, 2020 to 12th June, 2020.
12. Participated a One-day state level webinar **“CAS & New Regulation of UGC: Some relevant issues”** organized by 'Khudiram Bose Central College' on 18th July, 2020.
13. Participated a Two-days National level Multidisciplinary webinar **“Role of Guidance and Career Counselling in the perspective of Present Pandemic Situation of Covid - 19”** organized by 'Mankar College' from 5th August, 2020 to 6th August, 2020.

14. Participated a webinar "**Graphical Demonstration as Teaching Aid in connection with the Syllabus of B.Sc. Mathematics (Hons.) under CBCS pattern**" organized by 'Department of Mathematics & IQAC, Asutosh College' on 8th August, 2020.
15. Participated a Two-days National level webinar "**Pure and Applied Mathematics**" organized by 'Department of Mathematics (UG & PG), Behala College' from 9th August, 2020 to 10th August, 2020.
16. **Acted** as a **Joint-Convener** of a One-day National webinar on '**Recent Advances in Mathematical Science**' on 16th Aug., 2020 organized by Dept. of Mathematics, Egra S.S.B. College, Egra, Purba Medinipur.
17. Participated in a '**Two-Day State level Seminar on CAS, WBHS & Other Service Benefits for College Employees**' organized by Women's College, Calcutta in collaboration with Bhairab Ganguly College from 8th June 2021 to 9th June 2021.
18. **Supervised** one student under the theme "**Classical & Quantum Gravity**" in the online Summer Research Program 202, organized by the Department of Physica, Prabhat Kumar College, Contai held from June 14 to September 30, 2021.
19. **Acted** as a Resource Speaker for '**Innovative Approaches of Computer Studies**' on 10th July, 2021 organized by the Department of Computer Science, Vivekananda College. Thakurpukur.
20. **Participated** in "**Inter/ Multi-Disciplinary Refreshers Course in Environmental Science and Echology**" organized by UGC-HRDC, Ranchi University from 13th September 2022 to 26th September 2022.
21. **Acted** as a convener of a **Two-day International Conference on Science, Technology and Management (ICSTM 2023)**, organized by the Department of Computer Science. Mathematics, Physics and Commerce of Egra Sarada Shashi Bhusan College, Egra, Purba Medinipur, West Bengal, India in Collaboration with **Department Of Computer Science &**

Applications, Prabhat Kumar College, Contai, Purba Medinipur, West Bengal, India from 25th April 2023 to 26th April 2023.