Dr. Bikash Chandra Paul

M. Sc. (Gold Medalist), Ph. D., FRAS (London, UK)

Professor,

Members of Learned Societies: Life Member of Indian Association of General Relativity and Gravitation (IAGRG), INDIA

Council Member of IAGRG (2010-2014)

1. Contact Address:

Phone +91-353-2776338 (O)

Mailing Prof. B. C. Paul, Department of Physics, University of North Bengal, Address: P.O.- NBU Campus, Dist- Darjeeling, West Bengal, Pin -734013, India.

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Subject Specialization: Research: Theoretical Physics (Astrophysics & Cosmology),

M. Sc. (Physics, Specialization: Electronics & Radio Physics)

2. Date of Birth: January 16, 1962 (Siliguri, West Bengal)

3. Academic Qualifications:

Ph. D. 1990 Thesis: The Inflationary Models of The Early Universe

(Supervisor: Professor Sailojananda Mukherjee)

Theoretical Physics, NBU

NET, 1984 UGC, New Delhi

M. Sc. (1983)

(Exam in 1984) Physics (Special Paper: Electronics and Radiophysics)

Physics Department, NBU (First Class, Rank: First)

Awarded Univ. Gold Medal and T. P. Roy Memorial Medal

B. Sc. (Hons.),1981 **Physics (Honours),** Chemistry & Mathematics

Siliguri College, North Bengal University

First Class, Rank : Second, Awarded Univ. Silver Meda

<u>4. Areas of Research Interest:</u> Theoretical Physics (Astrophysics & Cosmology)

I. Cosmology : Relativistic Cosmology, Accelerating Universe, Dark matter & Dark Energy, Modified Gravity, Emergent Universe, Dynamical Wormholes, Primordial Black Holes;

II. Astrophysics: Relativistic models of Neutron Star, Black Holes, Data Analysis: X-Ray Pulsar

(i) No. of Ph.D. students Guided: (a) Supervised: 10

(b) Submitted: 01 (2022)

(c) Registered Ph. D. Student: 08

		1
Sl. No.	Name of Students awarded Ph. D.	Now working
1.	Dr. Dilip Paul (2010)	Islampur College
2.	Dr. Partha Sarathi Debnath (2011)	APC Govt. Science College
3.	Dr. Pradip Kumar Chattopadhyay (2013)	Coochbehar Panchanan Barma University
4	Dr. Souvik Ghosh (2013)	Post doc at HRI, Allahabad
5	Dr. Arindam Saha (2014)	Jalpaiguri Engineering College
6.	Dr. Prasenjit Thakur (2015)	Alipurduar University
7.	Dr. Pragati Pradhan (2016)	Post doc at MIT, USA
8.	Dr. Rakesh Kar (2017)	Teacher
	Inter-department Ph. D. : Physics and Chemistry	
9.	Dr. Rumi Deb (2018)	Teacher
10	Dr. Binay Rai (2022)	Awarded in 2022

Registered Ph. D. Students:

Sl.No.	Name of Student	Submitted/Ongoing
1.	Sagar Dey	2022
2.	Anirban Chanda	
3.	Bikash Chandra Roy	
4.	Bibhash Das	
1.	Manoj Ghisjing	
2.	Pryanka Mandal	
3.	Ruchi Tamamg	
4.	Md. Tabrez	

(ii) List of Publications: Number Published: 131 (September 05, 2022)

(a) Journal(s): 120 (b) Book(s): 01 (c) Book Chapter (s): 05 (d) Others: 05

5. Achievement & Awards:

- Fellow of Royal Astronomical Society (FRAS), London, UK on October 09, 2020.
- Member of International Astronomical Union (IAU) Paris from June 10, 2020.
- TWAS-UNESCO Associateship (2007-2011, 2013-2017): Visited Centre of Excellence CAS, Beijing and Kavli Institute of Theoretical Physics China (KITPC), Peoples Republic of China.
- Visiting Associate of Inter-University Centre for Astronomy & Astrophysics (IUCAA), Pune (August 01, 2006 onwards)
- Visiting Associate of Institute of Mathematical Sciences (IMSc), Chennai (2013-2016)
- Visiting Associate of S N Bose National Centre for Basic Sciences (SNBNCBS), Kolkata (2014 2017)
- Post-Doctoral Fellowship in University of Zululand, South Africa (Aug-Oct, 1996).
- *ISRO Fellowship* (26.09.84-02.04.85)
- UGC NET Qualified (1984), UGC Junior Research Fellow and Senior Research Fellowship (1985-1990)
- *UGC Minor Research Projects, NBU* (2005, 2007, 2009-2011)
- National Scholarship (on B. Sc. (Hons.)) Result)
- N F Rly Merit Scholarship (HSLC result)
- B. Sc. (Honours in Physics), NBU University Silver Medal (University Rank: Second)
- M. Sc. (Physics) University Gold Medal&T.P Roy Memorial Medal (University Rank:First)

6. Professional Experiences:

Research in Astrophysics and Theoretical Physics: 38 years

Post Graduate Faculty (Physics): 23 years

- *Professor* (29.01.2015-continuing)
- Associate Professor (29.01.2012 28.01.2015)
- Reader (29.01.2009-28.01.2012)
- Senior Lecturer, Physics Department, NBU (27.08.03-28.01.2009)
- Lecturer, Physics Department, NBU (27.08.1999 26.08.2003)
- Sr. Research Assistant at North Bengal University (02.04.1991- 26.08.1999 *) During 1991- 1996, also involved academically in Teaching PG courses of NBU
- Assistant Regional Director (ARD), at IGNOU, Regional Office for West Bengal & Sikkim (Bikash Bhavan 4th Floor, Salt Lake, Kolkata) (* one year On lien 1.10.1992-30.09.1993)
- Lecturer, Sikkim Govt. College, Sikkim (14.11.1990-01.04.1991)
- Post Graduate Teacher, K. V. Khaprail, Sukna, 03.07.1990-13.11.1990)

7. Administrative Experiences:

- Dean (PG Faculty of Sciences, NBU) (July 2017-June 2020) & Extended for another 7 months: (June 2020-January 2021)
- Registrar (Officiating), NBU (April 3, 2014-May 29, 2014)
- Registrar (Officiating), NBU (Aug. 2014-Feb 28, 2015)
- Coordinator, IUCAA Centre for Astronomy Research and Development (ICARD), NBU (2001-2021, 2021-2024) continuing) (Formerly IUCAA Resource Centre).
- Head, Department of Physics, NBU (Feb 08, 2016-Feb 07, 2018)
- Head, Department of Physics, NBU (Feb 09, 2010-Feb 08, 2012)
- Deputy Director, UGC Academic Staff College (Presently UGC HRDC, NBU (June 2012-March 31, 2014)

Other Administrative Experiences:

- Dy. Director of Preparatory SERC School on Theoretical High Energy Physics (THEP) at NBU (2012)
- Organised National Level Seminar at NBU as Jt. Co-ordinator (March 2001) and a Secretary of several seminars (FTAG-IV, Frontier's in Physics, Hundred Year Celebration of Einstein's Three papers etc.) (Jan. 3-5, 2005), School on Recent Advances in Cosmology (Feb. 21-26, 2011).
- Coordinator, Celebrating Centenary Year of General Relativity at IRC, North Bengal University (January 2015)

- Coordinator of IUCAA sponsored Winter school on General Relativity and its applications (Nov 2015)
- Organized a number of Public Outreach Program in collaboration with North Bengal Science Centre, Matigara, International Year of Astronomy (IYA-2009), Small Telescope Making Workshop for School Children (May 2009) was arranged at IRC, NBU including Popular Lectures delivered by Eminent Astrophysicists: Profs. J. V. Narlikar, M. Narlikar, S. Ananthakrishnan, A. K. Kembhavi, Naresh Dadhich, Dipankar Bhattacharyya (IUCAA, Pune), Dr. D. P. Duari (M P Birla Planetarium, Kolkata).
- Organized Refresher Course as a Course Coordinator (Jan. 4 24, 2012) in Physics and other in Inter-Disciplinary Subject Physics and Mathematics at UGC ASC, NBU (Jan 09-29, 2013)
- Honourary Dy. Director, ASC, NBU (June 2012-March 2014): Organized a number of Orientation Programs (OP) of UGC ASC as a Coordinator during (2012-2014)
- Organized Group Monitoring Workshop: DST FAST track-NBU as Local Coordinator (Aug. 22-24, 2013)
- IUCAA Sponsored Workshop on X-Ray Astronomy Coordinator, IRC, NBU (Mar. 23-25, 2013)
- Coordinator, Workshop on Disaster Management, UGC ASC, NBU (Mar. 29-30, 2013)
- Workshop on Astronomy DATA Analysis- IRC, NBU as Coordinator (Dec. 16-17, 2013)
- 22nd West Bengal Science Congress (Feb 28-Mar 01, 2015) (as a Vice President)
- 45th Annual Convocation of North Bengal University (26.02.2015) conducted as a Registrar (Officiating), North Bengal University
- Coordinator, IUCAA Resource Centre (18.06.2007-31.3.2019)
- Coordinator, IUCAA Centre for Astronomy Research & Development (ICARD) from 01.04.2019
- Coordinator of one day Awareness Program on Importance of Intellectual Property Rights jointly organized by North Bengal University and PHD Chamber of Commerce and Industries, New Delhi (Nov. 11, 2019)
- Organized Workshop jointly IRC, NBU and DHWU on Astrophysics and Astronomy for Women in India, (January 31-Feb. 01, 2020) at Diamond Harbour Women's University (DHWU), Sarisha, Diamond Harbour, 24-Parganas sponsored by IUCAA, Pune
- Coordinator, First Webinar Meeting at ICARD, NBU: Introductory Seminar on Astrophysics and Cosmology (September 16, 2020)

8. Visited the Foreign University/Institutes for Research work:

- International Centre for Theoretical Physics (ICTP), Trieste, ITALY participated Summer School in High Energy Physics and Cosmology (June 16-July 20, 1991).
- o Visiting PDF at Zululand University, South Africa (Aug 11 Oct 30, 1996)
- IAU 8th Asian Pacific Regional Meeting -2002, National Science Centre, Tokyo, Japan (July 2-5, 2002).
- Visiting Scientist at Zululand University and Kwa-Zulu Natal University, South Africa (June 2 – July 9, 2004).

- Visited Chinese Academy of Science (CAS) Beijing, China (June 5-17, 2006, Oct. 22-Dec. 15, 2007, June 02-July 25, 2014).
- o Visited West Ville University, Durban for an invited talk (1996)
- o Visited Institut d'Astrophysique de Paris, France (June 26-July 13, 2006)
- o Short term visitor ICTP, Trieste, Italy (July 3-August 17, 2007, June 7-23, 2009)
- o Visited University of Geneva, Geneva, Switzerland (Dec 13-18, 2016)
- Visited University of Kwa-Zullu Natal, Durban and University of Zululand, South Africa (24 September 2017 to 24 October 2017)
- Visited University of Portsmouth, United Kingdom (Dec. 15-20, 2019)

Activities in Research Society:

• Chaired Sessions:

- o Workshop on Strings and Cosmology (Oct 27-Nov. 1, 2004) at IUCAA, Pune
- Primordial Features and Non-Gaussianities (PFNG-2010) at HRI, Allahabad (Dec. 15-18, 2010)
- Workshop Chair, Classical Gravity (including gravity Wave) at 27th Meeting of IAGRG, Hemwati Nandan Bahuguna Garhwal University, Srinagar (March 7-9, 2013)
- Chaired Session-VII in the International Webinar on Recent Developments in Modified Gravity & Cosmology at BITS, Hyderabad Campus (March 9-11, 2021).

9. Collaborative work with

- o IUCAA, Pune,
- Lucknow University, UP
- o Jadavpur University, Jadavpur
- o IIEST, Shibpur (formerly BESU)
- o S N Bose National Centre for Basic Sciences, Kolkata
- o 🛾 Jamia Milia Islamia, New Delhi
- o Raman Research Institute, Bengaluru
- o Bangalore University, Bengaluru
- University of Zululand, South Africa
- o University of Kwa-Zulu Natal, South Africa
- Chinese Academy of Sciences, Beijing
- o Massachusetts Institute of Technology (MIT), USA

10. Different Committees at North Bengal University:

- a. President, NBU Teacher's Council (2015-16)
- **b.** Jt. Secretary, NBU Teacher's Council (2011-13)
- c. Member of Faculty Council for P.G. studies in Sciences, NBU

- d. Member for the Board of Under-Graduate studies in Physics at NBU
- e. Member of P.G. Board of studies in Physics at NBU
- f. Member of Project Monitoring Unit (RUSA-2016) at NBU
- g. Member of Development Committee of UNB
- **h.** Consultation Program in the light of National Curriculum Framework 2005 SCERT (WB) and Siliguri B. Ed. College,
- i. Member of UG Board of Studies, Gour Banga University
- j. Member of PG Syllabus Committee at NBU, Panchanan Barma University, Coochbehar
- k. PG BOS Member, Physics Department, Sikkim University (2015-2018)
- l. Member of PG Board of Studies, CPBU, Coochbehar
- m. Member of Distance Education Monitoring Committee, NBU
- n. NBU Executive Council Member (as a Dean (Science), 2017-2020)
- o. NBU Court Member (as HOD Physics 2010-12, 2016-18, Dean (Science))
- p. Dean (PG Faculty of Science) University of North Bengal (2017-2020, 2020-2021)
- q. Invited Expert in the Committee for preparation of "Comprehensive Glossary of Engineering (English-Hindi-Bangla) March 23-27, 2022Ministry of Education, Department of higher Education, Govt. of India held at SIT, Siliguri.

11. Research Projects:

I. Major Project Ongoing:	01
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File No. SERB Project CRG/2021/000183

"Beyond General Relativity and the Observed Universe with Dark matter and Dark Energy" (Mar 19, 2022-Mar 18, 2025) (Rs. 22.6 Lakh sanctioned)

- II. Major Project Completed: 02
 - SERB Project File No. EMR/2016/005734

"Theoretical and Observational Aspects of Compact Objects" (Nov 17, 2017-Dec 31, 2020) (Nov 17, 2017-Dec 31, 2020) Rs.13.59 Lakh(sanctioned)

 UGC Major Research Project on "Cosmologies, Dark matter & Dark Energy" (2013-2016) Funded by UGC, New Delhi No.42-783/2013(SR)) (Rs. 9 Lakh sanctioned)

II. Minor Projects: 05

Number of Completed UGC Minor Research Project & University Projects: 02+03

12. Reviewed Papers in Journals

Pramana (Journal of Physics), Int. Journal of Theoretical Physics, , Proceedings of the National Academy of Sciences, Physical Sciences (NASA). New Astronomy, Classical and Quantum Gravity, Journal of Cosmology and Astroparticle Physics (JCAP), IJMPD (World Scientific), Gen. Rel. Gravity, American Journal of Modern Physics.

13. Popular Science Lecture/Article:

- 1. On Stellar Evolution and on Solar Eclipse (August 1999) at North Bengal Science Centre, Organised by NBSC Siliguri on 11.8.99.
- 2. Amader Viswa Bramhanda B. C. Paul, NBU Physics Alumni Association Souvenior 1991.
- 3. 50 Years of Space Exploration Matigara Science Centre, Siliguri (Oct. 4, 2007).
- 4. Mystery of the Universe and LHC Matigara Science Centre (Dec , 2008)
- 5. ViswaBramhanda O LHC SuryaSenMahaVidyalaya ,Siliguri (Dec 19, 2008)
- 6. On Non-Conventional Energy Sources Nature from Crisis to cure at ABN Seal College, (March 8-9, 2008)
- 7. Satellite Communication: A giant leap for mankind NBSC, Siliguri (16.2.2010)
- 8. Past and Present of Indian Astronomy -at North Bengal Science Centre, Matigara on Feb. 29, 2012
- 9. Past and Present of Indian Astronomy- OP at UGC HRDC, NBU (2013,2014, 2015)
- 10. MYSTERY of the universe & GOD PARTCLE, Don Bosco School, Siliguri (Aug. 07, 2015)
- 11. Why HIGG'S BOSON or GOD PARTCLE? Physics Department, Tari Tarpada Mahavidyalay, Bagdogra College on Dec. 03,2015.
- 12. Space Exploration in India OP UGC, HRDC, NBU 24 Aug, 2015
- 13. Counselling: Need of the Hours Lecture at UGC HRDC, NBU on Feb. 04,2016
- 14. Women's in Science-Lecture given a the Refresher Course in Women, Studies, ASC, NBU
- 15. Gravitational Wave-A New Window in Astronomy Siliguri Institute of Technology (SIT), Sukna, Post National Science-Day Lecture on March 17,2016

Invited Talks Presented:

- 16. Higher Dimensional Cosmology with Gauss-Bonnet terms and the Cosmological Constant Problem at the University of Durban, SOUTH AFRICA, (1996).
- 17. Dissipative Cosmology in (1 + 1) Dimensions at the NBU-IUCAA Workshop on Inhomogeneous Cosmological Models and Seminar on Conceptual Problems in Relativity & Cosmology at NBU (Nov 14-18, 1996).
- 18. Gravitational Instanton with scalar field at the XVI th IAGRG Conference held at Sardar Patel University, Gujarat (Dec 10-11, 1991).
- 19. Cosmology in Higher Dimensions at Centre for Theoretical Studies at IIT, Kharagpur (Feb 20, 2001)
- 20. Cosmological Constant Problem at Introductory School on Astronomy & Astrophysics held at Siliguri College, Siliguri (Nov. 16-20, 2002).
- 21. Compact Stars in Higher Dimensions- Seminar on Compact Star and Quark Gluon Plasma at NBU (18 August 2003).
- 22. Tachyonic Potential in Higher Derivative Theories- Workshop on Field Theoretic Aspects of Gravity (FTAG-IV) held at Pelling (March 2-6, 2004).
- 23. On Dark Matter- Zululand University, South Africa (June 22, 2004).

- 24. Compact Stars in higher dimensions Univ. of Kwa-Zulu Natal, Durban (June 25, 2004).
- 25. Emergent Universe Scenario Workshop on Strings and Cosmology at ITP and KITPC, Peoples Republic of China (Nov. 13, 2007).
- 26. "Emergent Universe: Theory and Observations" ACRU/Mathematics seminar University of KwaZulu-Natal (Westville Campus) South Africa Oct. 12, 2017
- 27. Gravitational Wave: A new window in Astronomy Invited talk at PRMS Mahavidyalaya, Jamboni, Bankura, 29.9.2020

Papers Presented in Seminar/Conference:

- 28. Inflationary Universe Scenario in an Anisotropic Kantowski-Sachs Model UGC National Seminar on Transport problem & Cosmology at Department of Mathematics, NBU (Oct 7-11,1985).
- 29. Chaotic Inflationary Scenario in an Anisotropic Universe IPS National Symposium on Particle Physics & Cosmology, Abs. No. 23 (page 31-33) (Mar 10-13, 1986) at IACS, Jadavpur.
- 30. Anisotropy in the Starobinsky Inflationary Scenario Procee. Of VIII th HEP symposium TF-1, p-41, Vol.I(Nov. 11-17, 1986) held at SINP, Calcutta.
- 31. Higher Dimensional Cosmology with Gauss-Bonnet terms XV th IAGRG Conference and National Seminar on Quantum Gravity & Cosmology, Abs. No. EU2 (p-12) (Nov. 4-7, 1989) at NBU.
- 32. Wormholes with Gauss-Bonnet terms in a Higher Dimensional theory XVI th Conference of IAGRG, Abs. No. 20 (Dec 10-11, 1991) at Sardar Patel University, Gujarat.
- 33. Wormholes in Higher Dimensions With Gauss-Bonnet terms Procee.of the Xth DAE High Energy Physics Symposium, Abs. No. T8, (p-114) (Dec 26-31, 1992) at TIFR, Bombay.
- 34. Primordial Black Holes in Higher Derivative gravity -Workshop on Inhomogeneous Cosmological Models held at NBU (Dec 14-18, 1996).
- 35. Causal Thermodynamics in Mann's theory GR-15, Abs. No. 67 (p-133) IUCAA, Pune (Dec 16-21, 1997).
- 36. Solution for a class of Spherically symmetric Relativistic Star GR-15, Abs. No. 23 (p-153) IUCAA, Pune (Dec 16-21, 1997).
- 37. Higher Derivative theory with Viscosity GR-15, Abs. No. 16 (p:186-187) IUCAA, Pune (Dec 16-21, 1997).
- 38. An overview on Higher Dimensional Cosmology with Gauss-Bonnet terms and the Cosmological Constant Problem Invited talk presented at the Orientation Meeting on Exact Solutions, DD U Gorakhpur University, Gorakhpur (Jan 18-19, 1999).
- 39. Quantum Creation of Open Universe, B. C. Paul and S. Mukherjee, Procee. of ICGC held at IIT, Kharagpur (Mentioned in Pramana 55 (2000) 606.
- 40. Probability of Primordial black holes pair creation in the universe (D = 4 & D > 4) Workshop on Topic in General Relativity at IUCAA, Pune (Oct. 12-20, 2000).
- 41. Primordial black holes pair in higher dimensional universe Conceptual Issues in

- 42. Quantum creation of open universe Regional Workshop on General Relativity, Kalyani University (Nov 21-22, 2001).
- 43. Singular Instantons in Higher derivative theories IAU 8th Asian Pacific regional Meeting at National Science Centre, Tokyo, Japan (July 2-5, 2002).
- 44. Cosmic No hair theorm and Brane world IAGRG Meeting held at IUCAA (Dec 10-14, 2002).
- 45. Chaotic Inflationary Universe in a brane world model Vth International Conference on Gravitation and Cosmology (ICGC-2004) (Jan 5-10, 2004) at Kochi, Kerala.
- 46. Brane and Chaotic Inflationary Universe Scenario 23rd Conf. Of IAGRG and Symp. On Recent Trends in General Relativity, Cosmology and Astrophysics (Dec. 7-10, 2004) at Rajasthan University, Rajasthan.
- 47. Probability of primordial black hole pair creation in modified gravity Physics in the trails of Einstein (Nov. 21-22, 2005) SINP, Kolkata.
- 48. Chaotic Inflationary Scenario OnBrane International Conference on Contem. Issues in Nuclear and Particle Physics (Feb 4-7, 2005) at Jadavpur University, Kolkata.
- 49. Chaotic Inflationary Universe on Brane Talk presented at 22nd IAP Colloquium: Inflation+25 years at Institut d'Astrophysique de Paris, France (June 26-30, 2006).
- 50. On Holographic Dark Energy Models -ICGC at IUCAA, Pune (Dec 17-21, 2007).
- 51. Emergent Universe Scenario in the Einstein-Gauss-Bonnet Gravity with Dilaton -25th IAGRG at SINP Kolkata (Jan 28-31, 2008)
- 52. Probability for Primordial Black Holes in Multidimensional Universe with non-linear scalar curvature terms 25th IAGRG at SINP Kolkata (Jan 28-31, 2008).
- 53. Emergent Universe: Theory and Observations Workshop on Astronomy: Theory Observations and Interpretation (April 5-9, 2010) at NBU
- 54. Lecture-1: Basic Cosmology, Lecture-2: Dark Matter and Dark energy in the School on Recent Advances in Cosmology at NBU (Feb. 21-26, 2011)
- 55. On the viability of some Emergent Universe models, S. Ghose and B. C. Paul, HECRC Seminar on Relativistic Astrophysics & Astroparticle Physics
- 56. Emergent Universe: Theory and Observations Invited Lecture at IISc, Bangalore (April 27, 2010), AAPCOS at Hotel Mayfair (SINP) on March 7-12, 2012.
- 57. Womens in Science and Technology- Refresher course in Women and social Justice (May 2-22,2013) at NBU UGC ASC May 10, 2013.
- 58. Relativistic Models of Compact Objects with Charge-14.01.2015, CTP, Jamia Millia Islamia, New Delhi.
- 59. Creation of Emergent Universe with Wormhole Oral presentation in 28th Texas Symposium on Relativistic Astrophysics (Dec. 13-18, 2015) at Geneva, Switzerland.
- 60. Cosmology: The past and the present Universe- AAPCOS-2015 at Saha Institute for Nuclear Physics, Kolkata (Oct. 14-15, 2015)
- 61. Creation of Emergent Universe with Wormhole- 28th Texas Symposium at University of

- Geneva, Switzerland (Dec. 13-18, 2015)
- 62. Emergent Universe: Theory and Observations- Invited talk at Introductory Workshop on Astrophysics & Cosmology at Aliah University (Sept. 27-28, 2016)
- 63. Emergent Universe- A brief report Current development in Quantum Field Theory & Gravity On 125th Birth Anniversary of S N Bose, (2018)
- 64. Observed Universe and Dark Matter and Dark Energy -First IUCAA Resource Centre and CPBU, Coochbehar joint Program October 8-9 (2018)
- 65. Gravitational Wave -Workshop on Astronomy and Astrophysics (March 29-31, 2019)
 IUCAA Pune and Sikkim University Joint Program
- 66. Emergent Universe- Present Status Cosmology- The Next Decade Workshop (Jan 22-25, 2019) at Inter National Centre for Theoretical Science (ICTS-TIFR), Bangalore
- 67. Emergent Universe via Wormhole 30th Texas Symposium at University of Portsmouth, UK (Dec. 14-20, 2019).
- 68. Gravitational Wave- A new Window in Astronomy, Exploring Cosmos, HECRC, NBU (Feb. 28, 2020)
- 69. GW: A new Window in Modern Astronomy Invited talk at Physics Department, NIT, Durgapur (Feb. 03, 2020).

Virtual Meetings (During and POST Covid-19 Pandemic situation Webinar)

- 70. Virtual Meeting on Compact Stars and QCD 2020- ICTS, Bangalore (August 17-21, 2020)
- 71. Physics of the Early Universe-An online Precursor (August 31- September 03, 2020) -ICTS Bangalore.
- 72. Invited talk Gravitational Wave A multi-messanger in Astronomy- International PRMS Mahavidyalaya Jamboni, Bankura (September 29, 2020)
- 73. International Webinar on Recent Advances in Science and Technology (RAST-2020)- (Nov. 06-08, 2020) Indira Gandhi Institute of Technology, Sarang, Odisa
- 74. Naya Kshitij: NEP 2020 for Higher Education (Nov. 7, 2020), Teaching learning Centre (TLC), BITS, Pilani Campus
- 75. Hermes Science Team Astrophysics with Cubesats- (Nov. 18-19, 2020)
- 76. Virtual Conference of CERN Switzerland-Island Hoping 2020 from Wormholes to Averages (Nov. 16-20, 2020)
- 77. International webinar on Recent Development in Modern Gravity and Cosmology (RDCM-2021, Mar 09-11, 2021)- Invited talk on "Emergent Universe via Dynamical Wormhole."
- 78. GRAVITEX 2021: International Conference on Gravitex: Theory and Experiments Invited talk on "EU via wormhole:" August 9-12, 2021 held at Astrophysics Research Group (ARC), University of Kwazulu-Natal, Durban, South Africa.

14. List of Publications of Dr. Bikash Chandra Paul (1986-2022):

S. No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	B. C. Paul , D. P. Datta, S. Mukherjee	Chaotic Inflationary Scenario in an Anisotropic Universe	Mod. Phys. Letts. A	1	149	1986
	B. C. Paul , D. P. Datta, S. Mukherjee	Early Universe in Modified Starobinsky Model	Mod. Phys. Letts. A	3	843	1988
	B. C. Paul, S. Mukherjee	Higher Dimensional Cosmology with Gauss-Bonner terms	Physics Teacher	31	183	1989
4.	B. C. Paul	Amader ViswaBramhanda	NBU Physics alumni Association Souvenir			1991
5.	B. C. Paul	The Inflationary Models of the Early Universe		Thesis		1990
6.	B. C. Paul, S. Mukherjee	·	Phys. Rev. D	42	2595	1990
	S. Mukherjee, B. C. Paul , A. Kshirsagar, N. Dadhich	Gravitational Instantons with Scalar field	Phys. Rev. D	45	2772	1992
8	B. C. Paul , S. Mukherjee, A. Beesham	Wormholes in Higher Dimensions with Gauss- Bonnet terms	Pramana, A Journal of Physics	44	133	1995
9.	B. C. Paul, G. P. Singh A. Beesham, S. Mukherjee	Primordial Black Hole Pair Creation in R^2 - theory	Procee. Of Hanno Rund Conference, Ed.: S. D. Maharaj		80-84	1996
10.	B. C. Paul , A. Beesham	Higher Derivative theory with Viscosity		World Scientif ic		1997
	S. Mukherjee, B. C. Paul , N. Dadhich	General Solutions for Relativistic Star	Class. & Quantum Grav.	14	3475	1997
	B. C. Paul , S. Mukherjee, A. Beesham	Qualitative Analysis of Causal cosmological Models in (1 + 1) Dimensions	University of Zululand Internal Report			1998
	B. C. Paul , G. P. Singh A. Beesham, S. Mukherjee	Primordial Black Hole Pair Creation in R^2- theory	Mod. Phys. Lett. D	13	2289	1998
14	B. C. Paul , S. Mukherjee, A. Beesham	Viscous Cosmological Models in $(1 + 1)$ Dimensions	Int. J. Mod. Phys. D	7	567	1998
15.	B. C. Paul, S. Mukherjee, A. Beesham	Higher Derivative theory with Viscosity	Int. J. Mod. Phys. D	7	499	1998
16.	B. C. Paul, S. Mukherjee, A. Beesham	Dissipative Cosmology in (1 + 1) Dimensions	NBU Science & Technology Review	10	44-53	1999

17.	B. C. Paul	Exact Scalar field Cosmologies in a Higher Derivative theory	Pramana, A Journal of Physics	53	853	1999
18	B. C. Paul, S. Mukherjee	Open Inflation in Higher Derivative Theory	THE UNIVERSE: Visions and Perspectives - eds. N. K. Dadhich and A. K. Kembhavi		253-260	2000
19.	B. C. Paul	Probability for Primordial Black Holes in a Higher Dimensional Universe	Phys. Rev. D	61	024032	2000
20.	B. C. Paul	Viscous Cosmologies with extra dimensions	Phys. Rev. D	64	027302	2001
21.	B. C. Paul	On the mass of a uniform density star in Higher Dimensions	Classical and Quantum Gravity	18	2637	2001
22.	S. Chakraborty, B. C. Paul	Inflation in Bianchi models and Cosmic no-hair theorem	Physical Review D	64	127502	2001
23.	B. C. Paul	Inflationary Cosmologies in an anisotropic Brane world	Phys. Rev. D	64	124001	2001
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