

## Curriculum Vitae

1. Name : **Dr. Pradip Kumar Chattopadhyay**
2. Sex : Male
3. Address of Residence : Madhyapara Housing Complex, Block-I,  
Flat No.B/2, Netajee Road, Near Madhyapara  
Choupathi, Ward No 4  
Pin-736121, West Bengal, India
4. Email : [pkc\\_76@rediffmail.com](mailto:pkc_76@rediffmail.com) / [pkc020276@gmail.com](mailto:pkc020276@gmail.com)
5. Phone : +919434134096 / +917477870118
6. Date of Birth : 02.02,1976
7. Current position/  
Post held : **Associate Professor**
8. Name and address of  
the present institution : **Department of Physics,**  
Coochbehar Panchanan Barma University  
Vivekananda Street, District-Coochbehar  
Pin-736101, West Bengal, India  
Phone- +91 3582 230218  
FAX- +91 3582 230833
9. Type of the University : State University, Govt. Sponsored
10. Scale of pay and  
Present basic pay & AGP : **143600 (01.07.2022)**
11. Nature of post : **Substantive**
12. Date of Joining in past &  
present institution : 18.03.2005 at Alipurduar College  
01.11.2017 at CBPB University

### 13. Academic qualification:

Degree	Subject	Year of passing	Class/Div	Percentage of marks (%)	Board College/ University
Secondary	English, Bengali, Geography, History, Mathematics, Physical Science, Life Science, Work and Physical Education	1991	1 <sup>st</sup>	70.44	West Bengal Board of Secondary Education
Higher Secondary	English, Bengali, Mathematics, Physics, Chemistry, Biology	1993	1 <sup>st</sup>	63.50	West Bengal Council of Higher Secondary Education

BSc	Physics, chemistry, Mathematics	1997	1st	65.00	The University of Burdwan
MSc	Physics Field of specialization- Radio Physics & Electronics	1999	1st	70.16	The University of Burdwan
PhD	Relativistic Astrophysics (To study the properties of Compact Objects)	2014	Awarded On 29.08.14		The University of North Bengal, Under the supervision of Dr. Bikash Chandra Paul

14. Research experience : **More than 16 years**

15. Teaching experience:

Sl. No.	Institution	Designation	Date of Joining	Date of Leaving	Reason of leaving	Service length
1	Alipurduar College	Assistant Professor	18.03.2005	31.10.2017	Joined as a faculty at CBPB university	12 years 07 months 14 days
2	Cooch Behar Panchanan Barma University	Associate Professor	01.11.2017	Till date	-	5 years

16. Other Qualification : **National Eligibility Test (CSIR NET 2000)  
Graduate Aptitude Test in Engineering (GATE 2000)**

17. Membership : **Life member Indian Association for General Relativity and Gravitation (IAGRG)**

18. **Principal investigator** of Minor Research Project sponsored by University Grants Commission, Govt. of India.  
**Status: Project Completed (PSW-089/10-11).**

19. **Principal investigator** of Minor Research Project sponsored by University Grants Commission, Govt. of India.  
**Status: Project Completed (PSW-109/2014-2015).**

20. Presented one paper in the **Asian Pacific Regional IAU Meeting (APRIM 2011)** held in Chiang Mai, Thailand during 26-29 July 2011 (Please see list of publication).

21. Presented one paper in the **IAU General Assembly (IAUGA2012)** held in Beijing, China during 20-31 Aug 2012 (Please see list of publication).
22. Presented one paper in the **Asian Pacific Regional IAU Meeting (APRIM 2014)** held in Daejeon, South Korea, 18-22 August 2014.
23. Presented two papers in triennial meeting of the **International Society of General Relativity and Gravitation (GR21)** held in Columbia University, New York, USA, during 10-15 July 2016.
24. Presented one paper in the **Asian Pacific Regional IAU meeting (APRIM 2017)** held in Taipei, Taiwan, during 3-7 July 2017.
25. Presented one paper in the **IAU General Assembly meeting (IAUGA 2018)** held in Vienna, Austria, during 20-31 Aug 2018.
26. Presented one paper in the **30<sup>th</sup> Texas Symposium on Relativistic Astrophysics (TEXAS 2019)** held in University of Portsmouth, Portsmouth, UK, during 15-20 Dec 2019.
27. Presented one paper in the **40<sup>th</sup> International Conference (online) on High Energy Physics (ICHP 2020)** held in Prague, Czech Republic, during 31 July-5 Aug 2020.
28. Presented one paper in the meeting of **IAGR G** held at **Harish Chandra Research Institute**, Allahabad, India, during 19-21 Jan 2011.
29. Attended two workshops on **Analysis of Archival data** sponsored jointly by IUCAA and Department of Physics, The University of North Bengal.
30. Working as a **Visiting Scientist** in the field of **Observational Astrophysics (X-ray data analysis)** with **Dr. Sachindranath Naik**, Professor, Astronomy and Astrophysics Division, Thaltz Campus, **Physical Research Laboratory**, Ahmedabad.
  
31. **Field of research interest** : **General Relativity, Relativistic Astrophysics (Theoretical and observational)**
  
32. **Research activities/Publications** : **Please see list of publications at the end (Annexure-I)**
  
33. **Thesis Title** : **Relativistic models of compact objects and investigation on their properties**
  
34. **Teaching Interest** : **General Relativity & Astrophysics, Electronics, Quantum Mechanics, Atomic Physics.**
  
35. At present I am supervising **six (06) research scholars** listed below:
  - a. **Koushik Ballav Goswami (CSIR fellow & Registered)**
  - b. **Bishnu Das (CSIR fellow & Registered)**

- c. **Anirban Saha (Assistant Professor** and part time research scholar. Registered)
- d. **Abdul Hakim (Full time** research fellow & Registered)
- e. **Debadri Bhattacharjee (Provisionally selected for DST, Inspire Fellowship,** Enrolled)
- f. **Rohit Roy (Assistant Teacher** and part time research scholar, Enrolled)

36. **Conference attended:**

- a. **National Conference** : **09**
- b. **International Conference (Abroad)** : **08**  
(Financial support given by International Astronomical Union & DST, Govt. of India)
- c. **International Conference (India)** : **04**

37. Worked as joint coordinator of Physics (PG courses) of Coochbehar Panchanan Barma University (05.08.2015 - 31.10.2017).

**Annexure-I**

Sl.No.	Title of the paper	Journal ISSN	Issue	Year	Impact Factor
1.	Relativistic star solutions in higherdimensional Pseudo-Spheroidal space-time <i>P K Chattopadhyay &amp; B C Paul</i>	PRAMANA Journal of Physics 0304-4289 (Springer)	Vol. 74, No. 4, April 2010, Page 513-523	2010	0.581
2.	Relativistic Strange Stars with anisotropy <i>B C Paul, P K Chattopadhyay, S Karmakar &amp; R Tikekar</i>	MPLA 0217-7323 (World Scientific)	Vol. 26, No. 8, Page 1-13 (2011)	2011	1.146
3.	Relativistic Solution for a class of static compact charged star in Pseudo-Spheroidal Space-time <i>P K Chattopadhyay, R Deb &amp; B C Paul.</i>	International Journal of Modern Physics D 0218-2718 (World Scientific)	Vol. 21, No. 8(2012), 1250071	2012	2.154
4.	Relativistic Charged Compact Stars with Spheroidal Space-Time	International Journal of Theoretical	Vol 53 Issue 5, Page 1666-1684 (2013) DOI:10.1007/s10773-	2013	1.262

	<b>P. K. Chattopadhyay, R. Deb &amp; B. C. Paul</b>	Physics 0020-7748 (Springer)	013-1965-9		
5.	Relativistic Anisotropic Star and its Maximum Mass in Higher Dimensions B. C. Paul, <b>P. K. Chattopadhyay &amp; S Karmakar</b>	Astro-Physics & Space Science 0004-640X (Springer)	Vol 356, Issue 2, Page 327-337, April 2015 DOI: 10.1007/s10509-014-2221-3	2015	1.481
6.	Density dependent B parameter of relativistic strange stars with anisotropy <b>P K Chattopadhyay &amp; B C Paul</b>	Astro-Physics & Space Science 0004-640X (Springer)	Vol 361 Issue 4, Page 1-11, April, 2016 DOI: 10.1007/s10509-016-2733-0	2016	1.465
7.	Radial variation of B-parameter of relativistic strange stars with anisotropy	Geo-Analyst , ISSN 2249-2909	July Issue (Online)	2017	1.05
8.	Microwave Radiation-An impending threat for living world	Geo-Analyst , ISSN 2249-2909	December Issue (Online)	2017	1.05
9.	Determination of the mass and energy of primary cosmic rays above 100 TeV R K Dey, S Dam, S Ray, A Basak and <b>P K Chattopadhyay</b>	Indian J Phys 0973-1458 (Springer)	Vol 92 No 11 Page 1357–1365 (Nov 2018) DOI: 10.1007/s12648-018-1241-1	2018	1.407
10.	New class of relativistic anisotropic strange star in Vaidya-Tikekar model. K B Goswami, A Saha & <b>P K Chattopadhyay</b>	Astro-Physics & Space Science 0004-640X (Springer)	Vol 365, Issue 141, Aug 2020 DOI: 10.1007/s10509-020-03856-9	2020	1.87
11.	Anisotropic star in Vaidya-Tikekar model admitting MIT bag model equation of state in pseudo-spheroidal geometry. A Saha, K B Goswami & <b>P K Chattopadhyay</b>	Astro-Physics & Space Science 0004-640X (Springer)	Vol 366, Issue 98, Oct 2021 DOI: 10.1007/s10509-021-04005-6	2021	1.87
12.	Anisotropic compact star in modified Vaidya-Tikekar model admitting	PRAMANA Journal of Physics	Vol 96, No. 127, Jan 2022 DOI:	2022	2.699

	new solutions and maximum mass K B Goswami, A Saha & <b><i>P K Chattopadhyay</i></b>	0304-4289 (Springer)	10.1007/s12043-022-02355-6		
13.	Core-envelop model of an anisotropic strange star with density-dependent Bag (B) parameter. B Das, K B Goswami, <b><i>P K Chattopadhyay</i></b> & R Sharma	Communicated to Indian Journal of Physics 0973-1458 (Springer)	May-2022	2022	1.778
14.	Dependence of maximum mass of strange star on finite strange quark mass ( $m_s \neq 0$ ). K B Goswami, A Saha & <b><i>P K Chattopadhyay</i></b>	Classical & Quantum Gravity 0264-9381 (IOPScience)	Vol. 39. No. 175006, 2022 DOI: 10.1088/1361-6382/ac7f78	2022	3.853
15.	Effect of charge on the maximum mass of anisotropic strange quark star. A Saha, K B Goswami, B Das & <b><i>PK Chattopadhyay</i></b>	PRAMANA Journal of Physics 0304-4289 (Springer)	Vol 97, No. 10, Jan 2023 DOI: 10.1007/s12043-022-02477-x	2022	2.699
16.	Maximum mass and radius of strange star in Finh-Skea geometry. B Das, K B Goswami, A Saha & <b>P K Chattopadhyay</b>	Communicated to PRAMANA 0304-4289 (Springer)	April-2022	2022	2.699
17.	Maximum mass of anisotropic charged strange quark star in higher dimensional approach ( $D \geq 4$ ) A Saha, K B Goswami, B Das & <b><i>P K Chattopadhyay</i></b>	Chinese Physics C 1674-1137 (IOPScience)	April-2022 10.1088/1674-1137/ac9aaa Vol.47, No. 1, 015105, Jan-2023	2022	2.994
18.	Strange Quark Star (SQS) in Tolman IV potential	European Physical	Vol.82, No. 1042, Aug-2022	2022	4.991

	with density dependent B - parameter and charge K B Goswami, R Roy, A Saha & <b>P K Chattopadhyay</b>	Journal C 1434-6052 (Springer)	10.1140/epjc/s10052 -022-11009-1		
19.	Anisotropic Strange Quark Star (SQS) in Finch-Skea geometry and its maximum mass for non-zero strange quark mass ( $m_s \neq 0$ ) B Das, K B Goswami, A Saha & <b>P K Chattopadhyay</b>	Communicated to Chinese Physics C 1674-1137 (IOPScience)	Sep-2022	2022	2.994
20.	Maximum mass of charged strange quark star in presence of Strange Quark Mass ( $m_s$ ) A Saha, K B Goswami, R Roy & <b>P K Chattopadhyay</b>	Communicated to Physica Scripta 1402-4896 (IOPScience)	Nov-2022	2022	3.081

#### Books/Reports/Chapters/General articles/Proceedings etc.

1.	Relativistic anisotropic strange stars in pseudo spheroidal space- time	B C Paul, <b>P K Chattopadhyay</b>	NARIT Conference Series Vol. 2012 (ISBN 978-616-12-0285- 9) Page 258-264	2011	
2.	Relativistic strange stars with anisotropy and B-parameter in pseudo spheroidal space-time	<b>P K Chattopadhyay</b> , B C Paul	Proceedings of IAUS 291 (ISBN 978-1-107-03380- 1, page 362-364, (Cambridge University press)	2012	

