

# Dr. Sujay Kr. Biswas

M.Sc (*Jadavpur University*)  
Ph.D (*Jadavpur University*)

Assistant Professor  
Department of Mathematics  
University of North Bengal  
Raja Rammohunpur, Darjeeling  
West Bengal, Pin-734013, India



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## *CONTACT ADDRESS*

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**Contact No.:** +91-7003392214

**Mailing Address:** Department of Mathematics, University of North Bengal, Raja Rammohunpur, P.O.-North Bengal University, Dist.-Darjeeling, West Bengal, Pin-734013, India.

**Email:** [sujay.math@nbu.ac.in](mailto:sujay.math@nbu.ac.in)  
[sujaymathju@gmail.com](mailto:sujaymathju@gmail.com)

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## *AREA OF SPECIALIZATION*

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**Applied Mathematics:** Mathematical Physics; Differential Geometry; Differential Equations and Dynamical Systems; General Relativity Theory; Astrophysics; Cosmology.

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## *RESEARCH INTEREST*

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**Area:** Cosmology; Dark Energy; Interacting Dark Energy; Dynamical systems application to Cosmology.

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## PROFESSIONAL EXPERIENCE

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**12-02-2021 –PRESENT:**                      **ASSISTANT PROFESSOR**  
Department of Mathematics, University of North  
Bengal, Dist.-Darjeeling, West Bengal, Pin-734013,  
India.

**18-02-2015 to 11-02-2021:**                      **ASSISTANT PROFESSOR**  
Department of Mathematics, Ramakrishna Mission  
Vivekananda Centenary College, Rahara, Kolkata-  
700118, West Bengal, India.

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## TEACHING EXPERIENCE

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**Taught UG -Courses:**                      February 2015 to February 2021.  
Mathematics:

**Taught PG -Courses:**                      August 2018 to till date  
Mathematics:

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## RESEARCH GUIDANCE

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**Ph.D Students:**                      **On going:**    Two (02)  
**Awarded:**                      Nil

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## PUBLICATIONS

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**Published Papers:**

1. **Sujay Kr. Biswas** and Atreyee Biswas,  
“Phase Space Analysis and Thermodynamics of  
Interacting Umami Chaplygin Gas in FRW Universe”,  
*European Physical Journal C*, **81** (2021), 356.  
DOI: [10.1140/epjc/s10052-021-09131-7](https://doi.org/10.1140/epjc/s10052-021-09131-7)
2. **Sujay Kr. Biswas** and Subenoy Chakraborty,  
“Interacting dark energy model in the brane scenario: A

dynamical system analysis”, *International Journal of Geometric Methods in Modern Physics*, **16** (2019) No. 08, 1950115.

DOI: [10.1142/S0219887819501159](https://doi.org/10.1142/S0219887819501159)

**3. Sujay Kr. Biswas**, Wompherdeiki Khylllep, Jibitesh Dutta and Subenoy Chakraborty, “Dynamical analysis of an interacting dark energy model in the framework of particle creation mechanism”, *Physical Review D*, **95** (2017) 103009.

DOI: [10.1103/PhysRevD.95.103009](https://doi.org/10.1103/PhysRevD.95.103009)

**4. Sujay Kr. Biswas** and Subenoy Chakraborty, “Interacting dark energy in  $f(T)$  cosmology: A dynamical system analysis”, *International Journal of Modern Physics D*, **24** (2015) No. 07, 1550046.

DOI: [10.1142/S0218271815500467](https://doi.org/10.1142/S0218271815500467)

**5. Sujay Kr. Biswas** and Subenoy Chakraborty, “Dynamical systems analysis of an interacting dark energy model in the brane scenario”, *General Relativity and Gravitation*, **47** (2015) 22.

DOI: [10.1007/s10714-015-1866-8](https://doi.org/10.1007/s10714-015-1866-8)

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*FOR MORE DETAILS*

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**Orcid:** <https://orcid.org/0000-0002-5160-7692>

**inSpire hep:** <https://inspirehep.net/literature?q=a%20S.K.Biswas.3>

**Researchgate:** <https://www.researchgate.net/profile/Sujay-Biswas-3>

**Google scholar:** <https://scholar.google.com/citations?user=cQOiZV0AAAAJ&hl=en>

**My personal webpage:** <https://sites.google.com/view/sujaykrbiswas>