

RESUME
MONIMALA NEJ

Department of Mathematics
School of Basic and Applied Sciences
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Personal Details



Name: MONIMALA NEJ
D/O: TAPAN KUMAR NEJ
Date of Birth: 01/04/1989
Marital Status: MARRIED
Nationality: INDIAN

Education

- Kadra Ashutosh Bibhabari Vidyamandir, SSC, General Courses, 1999 - 2004
- Badanganj High School, HSC, Science Group, 2004 - 2006
- Midnapore College, Vidyasagar University, B.Sc. (Hons) Mathematics, 2006 - 2009
- Visva-Bharati University, M.Sc. Mathematics, 2010 - 2012
- Shiv Nadar University, Ph.D Mathematics, Aug., 2014 - Aug., 2019

Awards

1. 2012 GATE

Project

1. (M.Sc Project) Title: A new travelling wave solution to study solutions and shocks in plasma in presence of Q -nonextensive electrons.

Ph.D Thesis

Title Exponents of Primitive Companion Matrices.

Publications

1. Monimala Nej, A. Satyanarayana Reddy. "Binary Strings of Length n with x Zeros and Longest k -runs of Zeros." Indian Journal of Mathematics, 61(1), 2019, 111-139.
2. Monimala Nej, A. Satyanarayana Reddy. "Exponents of Primitive Companion Matrices." Rocky Mountain Journal Of Mathematics, 49(5), 2019, 1633-1645.
3. Monimala Nej, A. Satyanarayana Reddy. "Exponents of Primitive Symmetric Companion Matrices." Indian Journal Of Discrete Mathematics, 7(1), 2021, 43-66.
4. Monimala Nej. "K-Primitivity : A Literature Survey." Submitted.
5. Monimala Nej. "A Survey On The Extended Notions Of Primitive Exponent." Work in Progress.
6. Utpal Kumar Samanta, Prasanta Chatterjee, Monimala Nej. "Soliton and shocks in pair ion plasma in presence of superthermal electron." Astrophys Space Sci, 345(2), (2013) 291-296. <https://doi.org/10.1007/s10509-018-3349-3>.

Selected Conferences

1. International Conference on Mathematics and its Applications (ICMA-2018), February 15-17, Burdwan University.
Title of the of the talk : Exponent set of primitive $(0,1)$ -companion matrices with positive trace.
2. Indian Women and Mathematics (IWM) Annual Conference 2018, June 21-23, Shiv Nadar University.
Title of the of the talk : Exponents of primitive symmetric companion matrices.
3. National Seminar on Mathematical Sciences (NSMS-2020), January 09-11, Burdwan University.
Title of the of the talk : Number of $n \times n$ primitive symmetric companion matrices with maximum exponent.
4. International Conference on Analysis, Algebra, Combinatorics and their Applications (ICAACA 2020), January 20-22, Jadavpur University.
Title of the of the talk : Binary strings of length n with x zeros and longest k -runs of zeros.
5. International Conference on Recent Advances in Mathematics, Statistics, and Data Science (RAMSDS 2024), November 27-28, Adamas University.
Title of the of the talk : K -Primitivity : A Literature Review.

Participation

1. "National Workshop on Mathematics Teaching Under Semester System at Under Graduate Level : Perspectives & Strategies", March 01-02, 2014, Department of Mathematics, Visva-Bharati.
2. "National Seminar on Recent Perspectives on Nonlinear Mathematics & Its Application", March 25-26, 2014, Department of Mathematics, Visva-Bharati.
3. The Summer School in Mathematics on "Fractals: Their Structures, Shadows and Translates", June 29-July 20, 2014, Department of Mathematics, Shiv Nadar University.
4. The Advanced Instructional School on "Matrix Analysis", May 02-21, 2016, Department of Mathematics, Shiv Nadar University.
5. The Advanced Training in Mathematics Schools: IST on "Advanced Linear Algebra", July 10-22, 2017, Indian Institute of Technology Gandhinagar, Gujrat.
6. The Annual Conference of "Indian Women and Mathematics", June 21-23, 2018, Department of Mathematics, Shiv Nadar University.

Work Experience

- Teaching Assistantship**
Shiv Nadar University
Aug. 2014 - July 2018

During my Ph.D program, I took classes on the following Math. courses:

 1. Linear Algebra
 2. Calculus I
 3. Calculus II
 4. Mathematical Methods I
 5. Introduction to Mathematical Finance
- Visiting Faculty**
College of Engineering and Management, Kolaghat
July 2019 - Dec. 2019
- Assistant Professor**
Adamas University, Barasat, Kolkata
Dec. 2019 - Present

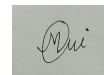
Research And Teaching Interest

Research Interest	Teaching Interest
<ul style="list-style-type: none">• Matrix Theory• Algebra and Number Theory• Biomathematics• Plasma Physics	<ul style="list-style-type: none">• Linear Algebra• Matrix Analysis• Algebra and Number Theory• Real Analysis

I hereby declare that the above written particulars are true to best of my knowledge and belief.

Date: *January 14, 2025*

Place: *Midnapore*



(Monimala Nej)