Government Autonomous College, Rourkela

Faculty Profile

Name	DR. RUDRA NARAYAN PADHAN
Designation	Assistant Professor
Department	Mathematics
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Qualifications

Degree	Institution	Year	Subject Details
BSc	Gangadhar Meher Autonomous College, Sambalpur	2009-2012	Mathematics Honors
MSc	Indian Institute of Technology Bombay	2013-2015	Mathematics Honors
PhD	National Institute of Technology Rourkela	2015-2020	On Isoclinism and Capability of Lie superalgebras

Areas of Interest/ Specialization Algebra

Teaching/Research Experience

Organization/Institution	Designation	Duration	Role
Institute of Technical Education and Research, SOA University	Assistant Professor	22-02-2021 to 17-07-2023	Teaching and Research

Course Taught:

Discrete Mathematics, Graph Theory, Advance Discrete Mathematics, Linear Algebra, Real Analysis

Ph. D. Guidance

No of Student Guiding : 2

Publications

Research Papers:

1- Hasan I. Y, Padhan, R. N. (2023). Detecting capable pairs of some nilpotent Lie superalgebras. Indian J. Pure Appl. Math. (Accepted). https://doi.org/10.1007/s13226-022-00348-0.

2- Padhan, R. N., Nandi, N., Pati, K. C. (2023). Some properties of isoclinism in n-Lie superalgebras. Asian-Eur. J. Math. 16(3): . 2350013. https://doi.org/10.1142/S1793557123500134.

3- Nandi, N., Padhan, R. N., Pati, K. C. (2023). Some properties of factor set in regular Hom-Lie algebras. AIP Conf. Proc. 2819, 020001. https://doi.org/10.1063/5.0137470.

4- Khuntia, T. K., Padhan, R. N., Pati, K. C. (2023). On generalizations of derivations of Lie superalgebras. AIP Conf. Proc. 2819, 020003. https://doi.org/10.1063/5.0137118
5- Nandi, N., Padhan, R. N., Pati, K. C. (2022). Superderivations of direct and semidirect sum of Lie superalgebras. Comm. Algebra. 50(3): 1055-1070. https://doi.org/10.1080/00927872.2021.1977943.
6- Khuntia, T. K., Padhan, R. N., Pati, K. C. (2022). Inner Superderivations of n-Isoclinism Lie superalgebras. Results Math. 77(3). https://doi.org/10.1007/s00025-022-01643-2.
7- Padhan, R. N., Nayak, S. (2022). On capability and the Schur multipliers of some nilpotent Lie superalgebras. Linear Multilinear . 70(8): 1467-1478. https://doi.org/10.1080/03081087.2020.1764902.
8- Padhan, R. N., Nayak, S., Pati, K. C. (2021). Detecting Capable Lie superalgebras. Comm. Algebra. 49(10): 4274-4290. https:// doi.org/10.1080/00927872.2021.1918135.
9- Nayak, S., Padhan, R. N., Pati, K. C. (2020). Some properties of isoclinism in Lie superalgebras. Comm. Algebra 48(2): 523-537. https://doi.org/10.1080/00927872.2019.1648654.
10- Padhan, R. N., Pati, K. C. (2020). Some studies on central derivation of nilpotent Lie superalgebra. Asian-Eur. J. Math. 13(4): . 2050068. https://doi.org/10.1142/S1793557120500680.
11- Padhan, R. N., Pati, K. C. (2019). Splints of root systems of basic Lie superalgebras. J. Phys. Conf. Ser. 1194 012085. https://iopscience.iop.org/article/10.1088/1742-6596/1194/1/012085/meta.