

Papers: (International/ National Refereed Journal)

1. **Weak secondary cyclotron line in eclipsing High Mass X-ray Binary Cen X-3**, *Pravat Dangal, Ranjeev Misra, N. K. Chakradhari, Yashpal Bhulla*, 2024, MNRAS, 527, 6981.
2. **Search for merger ejecta emission from late time radio observations of short GRBs using GMRT**, *Ghosh Ankur, Vaishnava C. S., Resmi L., Misra Kuntal, Arun K. G., Omar Amitesh, Chakradhari N. K.*, 2024, MNRAS, 527, 8068.
3. **Type Ia supernovae SN 2013bz, PSN J0910+5003 and ASASSN-16ex: similar to 09dc-like?** *Tiwari S., Chakradhari N. K., Sahu D. K., Anupama G.C., Kumar B., and Sahu K.R.*, 2023, MNRAS, 521, 5207.
4. **Can the violent merger of white dwarfs explain the slowest declining Type Ia supernova SN 2011aa?** *Dutta Anirban, Anupama G C, Chakradhari N K, Sahu D K*, 2022, ApJL, 938, 22.
5. **Modeling the late-time merger ejecta emission in short gamma ray bursts**, *Ankur Ghosh, Kuntal Misra, S. V. Cherukuri, L. Resmi, K. G. Arun, Amitesh Omar, Dimple, N. K. Chakradhari*, 2022, Journal of Astrophysics & Astronomy, 43, 66.
6. **Study of chemically peculiar stars - I. High-resolution spectroscopy and K2 photometry of Am stars in the region of M44**, *Joshi Santosh, Trust Otto, Semenko E., Williams P. E., Lampens P., De Cat P., Vermeylen L., Holdsworth D. L., García R. A., Mathur S., Santos A. R. G., Mkrtichian D., Goswami A., Cuntz M., Yadav A. P., Sarkar M., Bhatt B. C., Kahraman Aliçavuş F., Nhlapo M. D., Lund M. N., Goswami P. P., Savanov I., Jorissen A., Jurua E., Avvakumova E., Dmitrienko E. S., Chakradhari N. K., Das M. K., Chowdhury S., Abedigamba O. P., Yakunin I., Letarte B., Karinkuzhi D.*, 2022, MNRAS, 510, 5854.
7. **Quest for the Upcoming Periastron Passage of an Episodic Dust Maker and Particle-accelerating Colliding-wind Binary: WR 125**, *Arora Bharti, Pandey J. C., De Becker Michaël, Pandey S. B., Chakradhari Nand K., Sharma Saurabh, Kumar Brijesh*, 2021, AJ, 162, 257.
8. **Optical and UV studies of type Ia supernovae SN 2009ig and SN 2012cg**, *Chakradhari N. K., Sahu D. K., Anupama G. C.*, 2019, MNRAS, 487, 1886.
9. **Observational properties of a Type Ib supernova MASTER OT J120451.50+265946.6 in NGC 4080**, *Singh Mridweeka, Misra Kuntal, Sahu D. K., Dastidar Raya, Gangopadhyay Anjasha, Srivastav Shubham, Anupama G. C., Bose Subhash, Lipunov Vladimir, Chakradhari N. K., Kumar Brajesh, Kumar Brijesh, Pandey S. B., Gorbovskoy Evgeny, Balanutsa Pavel*, 2019, MNRAS, 485, 5438.
10. **Broad-line type Ic Supernova SN 2014ad**, *Sahu D. K., Anupama G. C., Chakradhari N. K., Srivastav S., Tanaka M., Meada K., Nomoto K.*, 2018, MNRAS, 475, 2591.
11. **Exploring the optical behaviour of a type Iax supernova SN 2014dt**, *Singh Mridweeka, Mishra Kuntal, Sahu D. K., Dastidar Raya, Gangopadhyay Anjasha, Bose Subhash, Srivastav Shubham, Anupama G. C., Chakradhari N. K., Brajesh Kumar, Brijesh Kumar, Pandey S. B.*, 2018, MNRAS, 474, 2551.
12. **Highly reddened type Ia supernova SN 2004ab: another case of anomalous extinction**, *Chakradhari N. K., Sahu D. K., Anupama G. C.*, 2018, MNRAS, 474, 2502.

Papers: (International Conference Proceedings)

1. **Ground-based photometric survey to search for the pulsational variability in Bp, Ap, and Am stars,** *Daniel Nhlapo, Santosh Joshi, Bruno Letarte, Nand Kumar Chakradhari, Sanjeev Kumar Tiwari*, Presented at Second Belgo-Indian Network for Astronomy & Astrophysics (BINA-2) International Workshop held at Brussels, Belgium during 9-12 October 2018. Published in *Bulletin de la Société Royale des Sciences de Liège*, 2019, BSRSL, 88, 248 (ISSN : 0037-9565, E-ISSN : 1783-5720, DOI: 10.25518/0037-9565.8929).
2. **The Nainital Cape Survey Project: A Search for Pulsation in Chemically Peculiar Stars,** *Chakradhari, N. K., Joshi S.* Presented at First Belgo-Indian Network for Astronomy & Astrophysics (BINA) International workshop held at ARIES, Nainital during 15-18 Nov. 2016. Published in *Bulletin de la Société Royale des Sciences de Liège*, 2018, BSRSL, 87, 150 (ISSN : 0037-9565, E-ISSN : 1783-5720, DOI: 10.25518/0037-9565.7614).
3. **A Peculiar Subclass of Type Ia Supernovae a.k.a. Type Iax,** *Mridweeka Singh, Kuntal Misra, Devendra Kumar Sahu, Raya Dastidar, Anjasha Gangopadhyay, Subhash Bose, Shubham Srivastav, Gadiyara Chakrapani Anupama, Nand Kumar Chakradhari, Brajesh Kumar, Brijesh Kumar & Shashi Bhushan Pandey.* Presented at First Belgo-Indian Network for Astronomy & Astrophysics (BINA) International workshop held at ARIES, Nainital during 15-18 Nov. 2016. Published in *Bulletin de la Société Royale des Sciences de Liège*, 2018, BSRSL, 87, 340 (ISSN: 0037-9565, E-ISSN: 1783-5720).

Posters: (International/ National Conferences)

1. **Photometric and spectroscopic studies of Type Ia supernova SN 2011ae,** *K.R. Sahu, N.K. Chakradhari, Mulchand Kurre, Shruti Tiwari, G.C. Anupama, D.K. Sahu*, presented at the 43rd annual Meeting of the Astronomical Society of India (ASI 2025), hosted by the National Institute of Technology Rourkela, Odisha during 15-19 February 2025.
2. **Normal Type Ia Supernova SN 2010ju,** *Shruti Tiwari, N.K. Chakradhari, K.R. Sahu, Mulchand Kurre, D.K. Sahu, G.C. Anupama*, presented at the 42nd annual Meeting of the Astronomical Society of India (ASI 2024), hosted jointly by IISc, ISRO and JNP, Bengaluru, 31 Jan to 04 Feb 2024.
3. **Optical Studies of Type Ic Supernova SN 2020akf in galaxy KUG 0925+387B,** *K.R. Sahu, Yogita Patel, Mulchand Kurre, Shruti Tiwari, N.K. Chakradhari, G.C. Anupama, D.K. Sahu*, presented at the 42nd annual Meeting of the Astronomical Society of India (ASI 2024), hosted jointly by IISc, ISRO and JNP, Bengaluru, 31 Jan to 04 Feb 2024.
4. **Photometric and Spectroscopic Studies of Supernova SN 2021mxx,** *Mulchand Kurre, D.K. Sahu, G.C. Anupama, Yogita Patel, N.K. Chakradhari*, presented at the 42nd annual Meeting of the Astronomical Society of India (ASI 2024), hosted jointly by IISc, ISRO and JNP, Bengaluru, 31 Jan to 04 Feb 2024.
5. **UV-Optical studies of Super-Chandrasekhar/09dc-like type Ia Supernovae,** *Shruti Tiwari, N. K. Chakradhari, D.K. Sahu, G. C. Anupama, B. Kumar, K. R. Sahu*, presented at

the 2nd National Conference on Signal Processing, Sustainable Energy Materials and Astronomy & Astrophysics (NSSEMA 2023), held at SoS in Physics and Astrophysics, Pt. R.S. University Raipur, during 16-18th March 2023, (awarded with second prize).

6. **Time Resolved Spectral Analysis of an eclipsing High Mass X-ray Binary 4U 1118-60 over a full binary orbit with ASTROSAT,** *Pravat Dangal, Nand Kumar Chakradhari and Ranjeev Misra*, Presented at the NSSEMA 2023, held at SoS in Physics and Astrophysics, Pt. R.S. University Raipur, during 16-18th March 2023.
7. **Luminous type Ia Supernova SN 2013bz,** *Shrutika Tiwari, N. K. Chakradhari, D.K. Sahu, G. C. Anupama, K. R. Sahu*. Presented at the 41st Meeting of the ASI, held at IIT Indore during 1-5 March 2023.
8. **Photometric and spectroscopic studies of type Ia supernova SN 2013bz,** *Shrutika Tiwari, N. K. Chakradhari, D. K. Sahu, G. C. Anupama, K. R. Sahu*. Presented at the Young Astronomers' Meet 2022, ARIES Nainital, 9-13 November 2022.
9. **Template fitting on type Ia supernova light curves,** *Shrutika Tiwari, N. K. Chakradhari, D. K. Sahu, G. C. Anupama, K. R. Sahu*. Presented at the International Workshop on Science and Technology in Astronomy Research (STAR 2022), SoS in Physics and Astrophysics, Pt. R.S. University Raipur, 15 -18 October 2022.
10. **Can the violent mergers of white dwarfs explain the slowest decline Type Ia supernova SN 2011aa,** *Anirban Dutta, N K Chakradhari, G C Anupama, D K Sahu*, international workshop on Time Domain and Multi-Messenger Astrophysics (TDAMM), held by the NASA Physics of the Cosmos Program, 22-24 August 2022, Annapolis, MD USA.
11. **PSN J0910+5003: A type Ia Supernova explosion similar to Super Chandrasekhar event,** *Shrutika Tiwari, N. K. Chakradhari, D. K. Sahu, G. C. Anupama*, presented at the 40th annual Meeting of the Astronomical Society of India (ASI 2022), IIT Roorkee, 25-29 March 2022.
12. **ASASSN-16ex: An explosion similar to super-Chandrasekhar type Ia Supernovae,** *Shrutika Tiwari, N. K. Chakradhari, D.K. Sahu, Brajesh Kumar, Avinash Singh and G. C. Anupama*, presented at the 38th annual Meeting of the Astronomical Society of India (ASI 2020) at IISER Tirupati during 13-17 February 2020.