

Curriculum Vitae

Santosh Joshi

PERSONAL INFORMATION

Address	Aryabhata Research Institute of Observational Sciences (ARIES), Manora Peak, Nainital-263 002, India
Phone	+91-5942-217751
Fax	+91-5942-233439
E-mail	santosh@aries.res.in, sjoshiaries@gmail.com
Birth Place	Almora, Uttarakhand , India
Nationality	Indian
Gendor	Male
Marital Status	Married

PROFESSIONAL EMPLOYMENT

July, 2023 - till date	Scientist 'F' ARIES, Nainital, India
January, 2018 - July, 2023	Scientist 'E' ARIES, Nainital, India
July, 2013 - Dec, 2017	Scientist 'D' ARIES, Nainital, India
January, 2009 - Jul, 2013	Scientist 'C' ARIES, Nainital, India
July, 2007 - Jan, 2009	Scientist 'B' ARIES, Nainital, India
July, 2005 - Jun, 2007	Post-doctoral Fellow IUCAA, Pune, India

July, 2000 - Jun, 2005	Scientific Assistant UPSO, Nainital, India
August, 1997 - Jul, 2000	Research Fellow ARIES, Nainital, India
August, 1997 - Jul, 2005	PhD Kumaun University, Nainital, India
PhD Supervisor	Prof. Ram Sagar ARIES, Nainital, India
PhD Co-supervisor	Prof. Peter Martinez South African Astronomical Observatory, South Africa

1 Research Interest

- Artificial intelligence (AI) and machine learning (ML)
- Investigation of the Photometric Variability in Chemically Peculiar Stars
- High-Resolution Spectroscopy and Spectro-Polarimetry of Pulsating Am stars
- Census of the Variable Stars in Open and Intermediate Age Star Clusters
- Spectroscopic Investigation of the Binary Stars
- Intra-night Variability of Blazars
- Instrumentation for the Stellar Variability

2 International and National Research Grants

2.1 Principle Investigator

1. BRICS project “Search and Follow-up Studies of Time-domain Astronomical Sources using Sky Surveys, BRICS Telescopes, and Artificial Intelligence” funded by BRICS consortium (DST Govt. of India, MSHE, Govt of Russia and NSFC, Govt of China (DST/ICD/BRICS/Call-5/SAPTARISI/2023(G)) (Amount: Rs. 42,89,660/-)
2. Indo-Belgium bilateral project entitled “Belgo-Indian Network for Astronomy and Astrophysics (BINA)-2” funded by DST Govt. of India and BELSPO, Govt. of Belgium (DST/INT/Belg/P-09/2018) (Amount: Rs. 33,70,690/-)
3. Indo-Belgium bilateral project “Belgo-Indian Network for Astronomy & Astrophysics” supported by DST, Govt. of India and BELSPO, Govt. of Belgium (DST/INT/Belg/P-02/2014) (Amount: Rs. 19,84,600/-).

4. Indo-Russian bilateral project “Time Resolved Photometric and Spectroscopic Study of the Chemically Peculiar Stars” funded by DST, Govt. of India and Russian Foundation for Basic Research, Govt. of Russia (INT/RFBR/P-118/2013) (Amount: Rs. 15,00,000/-).
5. Indo-South African bilateral project entitled “Search and Study of Variability in Ap and Am Stars” funded by DST, Govt. of India and National Research Foundation (NRF), Govt. of South Africa (INT/SAFR/P(3)/5/2009) (Amount: Rs. 8,76,000/-).
6. Indo-Russian bilateral project entitled “Studies of CP and RoAp Stars” funded by DST Govt of India and Russian Academy of Science, Govt. of Russia (INT/ILTP/B-3.19/2008) (Amount: \sim 3,00,000/-).

2.2 Co-Investigator

1. “Study of Instability and outburst in luminous blue variables LBVs” funded by SERB, DST, Govt. of India (CRG/2021/007772/2022).
2. Indo-Thai bilateral project entitled “Indo-Thai Collaboration for Studying Pulsating Variables at Different Evolutionary Stages” funded by DST Govt. of India and Govt. of Thailand (DST/INT/Thai/P-16/2019).
3. Indo-Russian bilateral project entitled “Investigation of the structure and kinematics of the young population of the Galactic disk in the solar neighborhood” funded by DST, Govt. of India and Russian Foundation for Basic Research, Govt. of Russia (INT/RUS/RFBR/P-219/2015).
4. Indo-Russian RFBR bilateral project entitled “Magnetic Activity in low-mass stars” funded by DST, Govt of India and Russian Foundation for Basic Research, Govt. of Russia (INT/RFBR/P-167/2014).
5. Indo-South African bilateral project entitled “Nainital-Cape Survey for roAp stars” funded by DST, Govt of India and NRF, Govt of South Africa (INT/SAFR/2001).

3 Sponsored funds for hosting the Conferences

- BRICS workshop funded by DST Govt of India (Amount: Rs. 10,00,000/-) (Proposed in 2025).
- Indo-Belgium workshop entitled “Scientific potential of the Indo-Belgian cooperation” (22-24 March 2023) funded by DST, Govt of India (Amount: Rs. 9,50,000/-)
- Indo-Belgium workshop entitled “BINA as an Expanding International Collaboration” (9-12 October 2018) funded by DST, Govt of India (Amount: Rs. 5,00,000/-)
- Indo-Belgium workshop entitled “Science and Instrumentation with DOT” (15-18 November 2016) funded by DST, Govt of India (Amount: Rs. 5,00,000/-)

4 Sponsored funds for attending International Conferences

- The University of Texas awarded a grant for an invited talk on 22 June 2015 at the Department of Physics, University of Texas at Arlington.

- The Indo-US Science and Technology Forum (IUSSTF) awarded a grant to attend an international workshop on “Advances in Variable Star Research” under the Indo-US Joint R & D Network Center on “Analysis of Variable Star Data/23-JC-2012” held at Texas A & M University, Houston, USA from 15 to 19 June 2015.
- IAU-307 awarded a grant to participate in an international workshop on “New Windows on Massive Stars, Asteroseismology, Interferometry and Spectropolarimetry at Geneva, Switzerland from 23 to 27 June 2014.
- DST awarded a grant to attend a workshop on “Impact of new instrumentation and new insights in stellar pulsation” held at Granada Spain from 5 to 9 September 2012.
- DST and CSIR jointly awarded a grant to attend a workshop on “Vienna Workshop on the Future of Asteroseismology” from 20 to 22 September 2006 at the University of Vienna, Austria.

5 Supervision to the PhD Students

1. Dr. Otto Trust from Mbarara University of Science and Technology PhD thesis titled “Evaluating the Origin of Chemical Anomalies in Am Stars” under the BINA project (Completed: June 2022).
2. Mr. Mrinmoy Sarkar (CSIR, fellow, ARIES) thesis titled “Photometric and Spectroscopic Investigation of Stellar Activities” under the BINA project (to be submitted: 2025).
3. Mr. Athul Dilip (INSPIRE fellow, ARIES) thesis titled “Understanding the Atmosphere and Variability Properties of A- and F-type Chemically Peculiar Stars” under the BINA project (to be submitted: 2026).
4. Mr. Surath Chandra Ghosh (BRICS fellow, ARIES) thesis titled “Search and Follow-up Studies of Time-domain Astronomical Sources” under the BRICS project (to be submitted: 2027).

6 Supervision to the Project Students

1. Mr. Musinguzi Andrew from University of Hyderabad, Telangana, India completed a one month project on Photometric Analysis of Stellar Variability from 05 December 2024 to 05 January 2025.
2. Mr. Vibhav Pandey from Dr. A.P.J. Abdul Kalam Technical University (AKTU) Noida, Uttar Pradesh developed the BINA Website from 01 August - 30 November, 2024.
3. Ms. Lamiya Thersha K. from Farook College, Calicut, Kerala completed a summer project entitled “Photometric Analysis of HD 7157 and Hd 247209 using TESS data” for the period of May-June 2024.
4. Ms. Suman Sourav Biswal from Indian Institute of Science Education and Research (IISER), Berhampur, Odisha conducted a summer project entitled “Stellar Photometric Analysis Unveiling Stellar Variability” for the period of May-June 2024.
5. Ms. Vaisakhi K. from IISER Tirupati, Andhra Pradesh completed a summer project entitled “Investigating Stellar Variability via Photometric Techniques” for the period of May-June 2024.

6. Dishani Mallick from IIT Dhanbad conducted project on “Identification and Classification of variable stars using machine learning” 24 May-24 July 2023.
7. Mr. Ganesh Pawar from the Department of Physics, Mumbai University, project on “Low-resolution Spectroscopy of Be stars” from 01 February to 30 June 2022 and now continuing his PhD from Copernicus Astronomical Center of Polish Academy of Sciences, Poland.
8. Mr. Rohan Das of the Department of Physics, Central University of Tamilnadu, project on “Variability classification of be stars by time series analysis of TESS data” from 01 February to 25 March 2021 and now pursuing PhD from the University of Mizoram.
9. Ms. Suryani Guha from Central University of Haryana, project on “Detection of Photometric Variability and classify Southern TESS targets mentioned in Nainital Cape Survey project” from 04 January to 20 March 2020 and now continuing her PhD from Charles University, Prague.
10. Mr. Vipin Khade from IISER Bhopal, project on “Constructing Butter Fly Diagram of HD173701” from 01 to 31 December 2019 and now doing PhD from the University of Minnesota.
11. Ms. Diksha Pathaniya from Punjabi University Patiala, project on “Photometric Investigation of Variability in HD 73045, HD 73135 and BD+19 2045 stars in M44” from 20 April-20 June 2019 and now pursuing PhD from the Thapar University, Patiala, Punjab.
12. Mr. Paras Chopara from IIT Delhi, project on “Investigating properties of stars HD 73045, HD 73135, BD+19 2045” from Kepler K2 mission from 3 April to 27 June 2019.
13. Ms. Sonam Mayani from Gujarat University project on “Analysis of Tess data for chemically peculiar stars” from 01 May to 30 June 2019.
14. Mr. Manu Vijayan from St. Albert’s College, Ernakulam University project on the “Analysis of Kepler data for chemically peculiar stars” from October to December 2018.
15. Ms. Shilpi Jain from IIT Roorkee, project on “Estimation of the Basic Physical Parameters of CP Stars using Spectral Energy Distribution” in 01 December-01 January 2018.
16. Ms. Harshita Gandhi from Delhi University Delhi, project on “Photometric Investigation of Variability in HD 73045, HD 73135 and BD+192045 in M44 Cluster” from 20 May to 20 July 2018.
17. Ms. Tannu Kartikeyan from IISER Bhopal, project on “Kepler NASA search for habitable planets” from 01 May - 30 June 2017.
18. Mr. Akshay Kumar from Patiala University Punjab, project “Photometric Study of Eclipsing Contact Binary VZ Tri” from 03 September to 30 November 2017. Presently and now pursuing PhD from the Department of Physics and Astronomy Galileo Galilei, University of Padova, Italy.
19. Mr. Rishav Malik from IIT Delhi, project on “Search for new variable stars using time-series data of 22000 stars” from 15 May to 15 July 2016, and now continuing his PhD from Max Plank Institute, Germany.
20. Mr. Sankalp Kumar from IISER, Thiruvananthapuram, project on the topic “Photometric Study of CW Leonis” from 15 May to 15 July 2016.

21. Ms. Arushi Gupta from Amity University, Delhi project on “Time Series Photometric Study of Exoplanet CoRoT-24b” from 15 May to 15 July 2016.
22. Mr. Sowgata Chowdhury from Tejpur University, project on “Stellar Variability and Rotational Activities in Kepler Field” from August 2014 to April 2015 and is now pursuing PhD from Copernicus Astronomical Center of Polish Academy of Sciences, Poland.
23. Ms. Sunita Bhatt from D. S. B. Campus Kumaun University, project on “Time Resolved Photometric Analysis of a CP star HD 73045” from 01 September to 30 November 2015 and now pursuing PhD from IIT, Delhi.
24. Mr. Rajat Gupta from Panjabi University Chandigarh, Mr. Madan L. Sharama from Kurukshetra University, Mr. Hemant Kumar, Ms. Jagriti Sahu and Mr. Bharat Kumar Devangan from Raipur University project for two weeks under the ATSOA programe held at ARIES from 02 to 12 March 2015.
25. Ms. Shreyasi Acharaya from Jadhavpur University, Kolkata, West Bengal, project on “Search for Variable Stars in Open Star Cluster NGC 6866 using ISIS technique” from 01 June to 31 July 2014 and completed PhD from Variable Energy Cyclotron Center, Kolkata.
26. Mr. Deepak Eappachen from Newman College Thodupuza, Kerala, project on “Photometric data Analysis of a binary star AV CMi” from 14 June to 10 August 2013 and completed PhD from Radboud University, Netherlands.
27. Ms. Ragadeepika Pucha from ISERC Visva-Bharati, Santiniketan, project on “Search for Pulsational Variability in Ap Stars” from 01 July to 15 August 2013 and completed PhD from the University of Arizona, USA.
28. Mr. Arinjoy Nag from NIT Suratkal, Karnataka, project on “Online Database for Nainital-Cape Survey” from 01 May to 30 June 2010.
29. Mr. Pramod Sati from Manav Racha International University, Faridabad, project on “Photometric Variability of Brown Dwarfs”.

7 TEACHING

- Stellar Variability
- Helioseismology and Asteroseismology
- Radiative Processes
- Stellar Atmosphere
- Mathematical and Statistical Methods
- Astronomical Techniques
- Stellar Structure and Evolution
- Basic Astronomy and Coordinate System
- Star Formation and Stellar Evolution
- Radio Astronomy

8 Observational Experience

- 0.5-m and 1.0-m telescopes at Sutherland, South Africa.
- 1.04-m telescope at ARIES, Nainital.
- 1.2-m Mercator telescope at Canary Islands, Spain.
- 1.3-m telescope at Devasthal, ARIES, Nainital.
- 1.9-m telescopes at Sutherland, South Africa.
- 2.0-m Himalayan Chandra Telescope (HCT) at Leh.
- 2.0-m telescope at Girawali Observatory Pune.
- 2.34-m Vainu Bappu Telescope at Kavalur, IIA, Bangalore.
- 2.4-m telescope of National Astronomical Research Institute, Thailand.
- 3.6-m Devasthal Optical Telescope (DOT), ARIES, Nainital.
- 6.0-m telescope at Special Astrophysical Observatory (SAO), Russia.
- Giant Meter Radio Telescope (GMRT) at Pune.

9 Public Outreach

1. “The ongoing BRICS Activities” on 13 May 2024 at NAOC, Beijing China.
2. “Indian Astronomical Observing Facilities : Prospects for Asteroseismology” on 04 March 2024 at National Center for Space Research and Development Agency, Nigeria.
3. “A Glimpse of Observational Facilities in India and Synergies with Asteroseismology” on 01 March 2024 at Department of Physics College of Science and Technology, University of Rawanda.
4. “Uttarakhand Srajan 2019 - National Expo” at Gairshen and delivered a talk on “The Solar System and Universe” to the students and general public along the star grazing program.
5. “Bapu Khagol Mela” at Tarikhet Almora, Uttarakhand on 07 May 2019 and delivered two lectures on Khagol Science in India.
6. “Life Cycle of Stars and Human Development” at G. I. C. Champawat on 08 May 2016 in an event organized by “Himvatsa”.
7. “Music of Stars” at G. I. C. and G. G. I. C. Champawat and Navodaya Vidyalaya, Champawat in the first week of May 2015 on the occasion of International Light Year organized by “Himvatsa”.
8. “International Astronomical Union: Office of Astronomy for Development (OAD)” at SAAO, South Africa from 12 to 14 December 2011.

10 Members of Academic Committees

1. External examiner to review a Phd thesis entitled “Tracing the Origin of Heavy Elements through Metal Poor Stars” submitted a PhD scholar of IIA, Bangalore to Pondichery University.
2. External examiner to review a proposal entitled “Stellar Pulsation : Probing the interior of the Stars” submitted to Human Resource Development Ministry, Govt. of India.
3. External examiner to review a Phd thesis entitled “Characterising Selected Marginal Contact Binaries using Photometric and Spectroscopic Observations and Archival data” submitted to Omania University Hyderabad, India.
4. External examiner to review a PhD thesis entitled “Optical Spectroscopy of Classical Be stars in the Galaxy” submitted to CHRIST University, Bengaluru.
5. External examiner to review the PhD thesis entitled “Study of the Novae Properties” submitted to Kolkota University.
6. External examiner to review the PhD thesis entitled “Light Curve Structure of Variable Stars and its Applications” submitted to Delhi University.
7. External examiner to review the PhD thesis entitled “Solar and Solar-Like Oscillations” submitted to North West University, Mafikeng, South Africa..
8. External examiner to review the PhD thesis entitled “Determination of Orbital Parameters of Kepler Binary Stars using time-delay method” submitted to North West University Mafikeng, South Africa.
9. External examiner to review the master thesis entitled “Determination of the Membership of Kepler Open Cluster NGC 5819” submitted to Mbarara University of Science and Technology, Uganda..
10. External examiner to review the master thesis entitled “Age of Single Rotating Stars in the Kepler Open Cluster NGC 6811” submitted to Mbarara University of Science and Technology, Uganda.
11. External examiner of the CSIR project entitled “Variable Stars as Astrophysical Laboratories” submitted to CSIR, Human Resource Development Ministry, Govt. of India.
12. Guest editors for the proceedings of the first, second, and third BINA workshops held at ARIES Nainital, ROB Belgium, and Graphic Era Hill University, Bhimtal Nainital, respectively.
13. SOC members of the BRICS conference entitled “Multi-messenger Astronomy in BRICS framework” held on 05 Dec 2023 at SAO, Russia.
14. SOC member of one-day workshop entitled “Evaluation and future prospects of the Indo-Belgian collaboration” held on 10 October 2023 at Royal Observatory of Belgium, Brussels.
15. SOC member of European Astronomical Society (EAS) annual meeting entitled “Unveiling the Secrets of Chemically Peculiar Stars” held from 10 July - 14 July 2023 at Krakow, Poland.
16. Co-chair of SOC of the third Belgo-Indian Network on Astronomy and Astrophysics (BINA) workshop entitled “Scientific potential of the Indo-Belgian cooperation” held from 22 to 24 March 202 at Graphic Era Hill University, Bhimtal.

17. SOC Chair of the Indo-Thai workshop entitled “Investigating the Stellar Variability and Star Formation” held on 02 March 2020 at ARIES, Nainital.
18. Co-chair of SOC of the second BINA workshop on “BINA as an Expanding International Collaboration” held from 9 to 12 October 2018 at the Royal Observatory of Belgium, Brussels.
19. Co-chair of SOC of the first BINA workshop on “Science and Instrumentation with DOT” held from 15 to 18 November 2016 at ARIES, Nainital.
20. Co-chair of SOC of the Indo-South African workshop held from 30 October to 01 November 2008 at ARIES, Nainital.
21. SOC member of the “ARIES International Workshop on Asteroseismology” held from 04 to 06 December 2004 at ARIES, Nainital.

11 Organization of National Conferences/Schools/Workshops

1. A one day workshop on “Indo-Thai collaboration” at National Research Institute of Thailand on 19 December 2024.
2. A one-day workshop entitled “Evaluation and future prospects of the Indo-Belgian collaboration” held on 10 October 2023 at Royal Observatory of Belgium, Brussels (SOC Member).
3. The third Belgo-Indian Network on Astronomy and Astrophysics (BINA) workshop entitled “Scientific potential of the Indo-Belgian cooperation” held from 22 to 24 March 2023 at Graphic Era Hill University, Bhimtal (Convener).
4. The golden jubilee of 1.04-m Sampurnanand telescope held from 17-19 October 2022 at ARIES, Nainital (LOC Member).
5. The Indo-Thai workshop entitled “Investigating the Stellar Variability and Star Formation” held on 02 March 2020 at ARIES (Convener).
6. The second BINA workshop on “BINA as an Expanding International Collaboration” held from 9 to 12 October 2018 at Royal Observatory of Belgium, Brussels (SOC Member).
7. The first BINA workshop on “Science and Instrumentation with DOT” held at ARIES from 15 to 18 November 2016 (Convener).
8. The “Gamma-ray bursts, evolution of massive stars and star formation at high red-shifts” held from 02 to 04 March 2011 at ARIES, Nainital (LOC Member).
9. The Indo-South African workshop on “Indo-South African Collaboration” held at ARIES, Nainital from 30 October to 01 November 2008 (Convener).
10. The annual meeting of the Astronomical Society of India held at ARIES, Nainital from 21-24 February 2005 (LOC Member).
11. “ARIES International Workshop on Asteroseismology” held from 04 to 06 December 2004 at ARIES, Nainital (Convener).
12. “Introductory Astronomy, Astrophysics and Atmospheric Physics” held at ARIES, Nainital during 10-12 June 2002 and 20-23 June 2004 (LOC Member).

13. “Observational programme with 2-m class optical telescopes” held at ARIES, Nainital from 15 to 17 October 1999 (LOC Member).
14. Young Astronomers Meet held at ARIES, Nainital in 10 June 1999 (LOC Member).

12 Invited Talks at Symposium/Conferences/Schools/Workshops

1. “Studies of Stellar Variability” on 28 April 2025 as a part of ARIES Training school in Observational Astronomy and Atmospheric Sciences (ATSOAA) held at ARIES from 20 April - 02 May 2025.
2. “The 104-cm Telescope of ARIES” on 21 March 2025 as a part of the celebration of foundation of ARIES.
3. “Asteroseismology of CP stars using Photometric and Spectroscopic Techniques” on 20 March 2025 as a part of the celebration of foundation of ARIES.
4. “BINA and Beyond : 10 Years of Successful Scientific Collaboration in Astronomy” in a conference entitled “Beyond the Stars : Celebrating Belgo Indian Astronomy and Astrophysics Partnership on 04 March 2025 at Nehru Planetarium Delhi during the visit of Belgian Princess as a part of Economic Mission to India.
5. “Exploring Stellar Variability with Asteroseismology” on 11 February 2025 (online) at University of Zanjan, Iran.
6. “Exploring the Stellar Variability under the Indo-Thai Collaboration” on 19 December 2024 at National Astronomical Research Institute of Thailand.
7. “TESS Photometry and Spectroscopic Exploration of A-Ftype stars” for the 3rd LAMOST workshop held at Beijing Normal University, Beijing from 21-24 May 2024.
8. “Overview of the Astronomical Observing Facilities at ARIES : Prospects of Stellar Astrophysics” at Shanghai Astronomical Observatory (SHAO), Shanghai China.
9. “Ongoing Activities on BRICS SAPRISI” project on 13 May at NAOC, China.
10. “Studies of Variability” for the ARIES Training School in Observational Astronomy (ATSOA 2024) on 20 April 2023.
11. “Photometric and Spectroscopic Exploration of the A-F type CP stars on 5 December 2023 during the BRICS conference held at SAO, Russia.
12. “Accomplishment of the BINA Project” during one-day workshop on 10 October 2023 held at the Royal Observatory of Belgium, Brussels.
13. “A glimpse of the Scientific Program of third BINA workshop” on 22 March 2023 in the third BINA workshop held at Graphic Era Hill University, Bhimtal.
14. “The Nainital-Cape Survey : Utilization of Moon observing period” on 18 October 2022 at ARIES in the national conference entitled Role of meter class telescopes in modern-day astronomy part of the Golden Jubilee Celebration of 104-cm Sampurnanand telescope.
15. “Asteroseismology from ARIES, Nainital” (online) on 17 August 2022 at North West University Mafikeng, South Africa.

16. “Investigation of A and F-type stars” using space photometry and high-resolution spectroscopy on 12 May 2022 at the National Astronomical Research Institute (NARIT), Thailand.
17. “AsteroSeismology from Ground and Space” (online) on 30 March 2022 at Koteb Metropolitan University, Ethiopia.
18. “Optical Astronomy in India and AsteroSeismology” (online) on 10 January 2022 at the Department of Physics, University of Nairobi, Kenya.
19. “New Initiatives on Indo-Nepal Joint Collaboration in Astronomy and Astrophysics” (online) on 07 September 2021 to the Nepali Astronomical Society (NASO) of Nepal.
20. “AsteroSeismology” (online) on 16 June 2021 at ARIES, Nainital.
21. “A Glimpse of the Optical Astronomy” (online) on 07 August 2020 at Central University, Gaya, Bihar.
22. “Overview of Indo-Thai Research activities” on 02 March 2020 at ARIES during a one-day Indo-Thai workshop on Investigating the Stellar Variability and Star Formation.
23. “AsteroSeismology at ARIES, Nainital” on 12 June 2020 during ARIES Training School in Observational Astronomy (ATSOA).
24. “Observational Facility at ARIES and Devasthal” on 05 February 2020 at the Department of Physics and Astrophysics, Delhi University North Campus.
25. “Introduction of the BINA Project and Overview of the BINA Activities” on 09 October 2017 during the second BINA workshop held at the Royal Observatory of Belgium (ROB), Brussels.
26. “Ground-based photometric Survey to Search for Pulsational Variability in Ap and Am Stars” on 12 October 2018 during the second BINA workshop held at Royal Observatory of Belgium (ROB), Brussels.
27. “The Nainital-Cape Survey: A contribution to AsteroSeismology” on 12 October 2017 during a one-day workshop held at the Royal Observatory of Belgium, Brussels.
28. “Nainital-Cape survey project: Results and Future Perspectives” on 22 March 2017 at North West University, Mafikeng, South Africa.
29. “Instrumentation and Science with 3.6-m DOT and 4.0-m ILMT” at ARIES on 15 November 2016 during the first BINA workshop.
30. “Time-Resolved Photometric and Spectroscopic Analysis of the CP Stars” at the University of Florida on 26 June 2015.
31. “AsteroSeimology of CP Stars” on 19 June 2015 at the University of Texas at Arlington.
32. “AsteroSeismic Investigation of the Pulsating Stars” on 15 June 2015 at A&M University, Houston.
33. “Existing of Small and Medium Size Telescopes in India and Science with them” on 19 October 2015 at SAO, Russia.
34. “AsteroSeismic Investigation of the Chemically Peculiar Stars” on 18 February 2015 at ASI meeting at NCRA, Pune.

35. “Photometric and Spectroscopic Analysis of CP Stars” under Indo-Russian Collaboration on 26 August 2014 at SAO, Russia.
36. “AsteroSeismology from ARIES” on 26 March 2014 during an Indo-UK seminar at ARIES.
37. “Study of Variable Stars using AsteroSeismic Technique” on 04 November 2012 at Department of Physics, M. B. Govt. P. G. College, Haldwani, Nainital, Uttarakhand.
38. “Stellar atmosphere: clues based on spectroscopy” on 02 March 2012 at ARIES during ATSOA School-2012.
39. “The Nainital-Cape Survey : A status report” on 19 May 2011 at SAAO, South Africa.
40. “Time-resolved photoelectric, photometric and high-resolution spectroscopic data analysis of a luminous Ap star HD 103498” on 01 September at SAO, Russia.
41. “The Nainital-Cape Survey: Contributions to AsteroSeismology of CP stars” on 11 September 2010 at Moscow State University, Moscow.
42. “Variable stars and their seismology” on 11 June 2009 during summer school held at ARIES, Nainital.
43. “Nainital-Cape Survey: A status report” on 30 October 2008 at ARIES, Nainital during an Indo-South African workshop.
44. “Introduction of Variable Stars” on 05 October 2008 in connection with the International Year of Astronomy 2009 at Nehru Memorial Museum and Library, New Delhi.
45. “Studies of Chemically Peculiar Stars” on 21 February 2005 during the 23rd Astronomical Society of India Meeting held at ARIES, Nainital.
46. “The Nainital-Cape Survey” on 05 December 2004 during ARIES International workshop on AsteroSeisomology, at ARIES, Nainital.
47. “Survey for Pulsational Variability in CP Stars” on 15 October 1999 during UPSO-IUCAA Workshop on the observational programme with 2-m class optical telescope held at UPSO, Nainital.
48. “The Nainital-Cape Survey” on 16 April 1998 during young astronomers meet held at ARIES, Nainital, IUCAA Pune and ISAC, Bangalore.

13 Participation in National and International Workshops/Conferences

Presented a poster entitled “Detection of the Intra-day flux variability of selected Blazars” from GMRT at 1.3 GHz” at 6th International Union of Radio Science (URSI) held at Graphic Hill University Bhimatal from 22-25 October 2024 by Santosh Joshi, Krishan Chand, Ravi Joshi and Gopal-Krishna.S. N. Bose National Centre for Basic Sciences Kolkota-India from 8-13 January 2024 to participate a national conference entitled “Star formation studies in India”. European Astronomical Society (EAS) annual meeting entitled “Unveiling the Secrets of Chemically Peculiar Stars” (online) from 10 July – 14 July 2023 at Krakow, Poland. Multidisciplinary Approach to Understand the Mysteries of Our Universe (online) from 17-21 July 2023 at the Department of Physics NIT, Raurkela. Annual ASI meeting (online) held from 25-29 March 2022 at IIT, Roorkee. TESS Science conference-II (online) from 02 to 06 August 2021 at Massachusetts

Institute of Technology (MIT), Cambridge USA. Astrophysical jets and observational facilities: National perspective (online) from 05 to 09 April 2021 at ARIES, Nainital. ILMT - International Liquid Mirror Telescope Workshop (online) from 29 June to 01 July 2020 at ARIES, Nainital. Advance in Physics from small to large scales from 14-16 March 2019 at DSB, Campus Nainital, Kumaun University Nainital. AstroSat Data Analysis Workshop from 08 to 11 August 2017 at ARIES, Nainital. Complex System: Application in Developmental Problems on 20 March 2017 at Delhi University, South Campus. Planning for Science with TMT: Challenges and Capabilities from 5 to 6 November 2014 at ARIES. New windows on massive stars: asteroseismology, interferometry, and spectro-polarimetry and presented a poster on “Time Resolved Photometric and Spectroscopic Analysis of Chemically Peculiar Stars” from 23-27 June 201 at the University of Geneva, Switzerland. IAU workshop on Office for Astronomy Development from 12 to 14 December 2011 at SAAO, South Africa. Gamma-ray bursts, evolution of massive stars, and star formation at high red-shifts from 2 to 4 March 2010 at ARIES, Nainital. SKA Calibration and Imaging from 5 to 6 December 2006 at SAAO, South Africa. Future of Asteroseismology from 5 to 7 September 2006 at Institute of Astrophysik, University of Vienna. Black Hole Astrophysics from 13-15 May 2004 at BARC, Mumbai. Annual meeting of Astronomical Society of India from 12 to 15 November 2000 at DDU University, Gorakhpur, India.

14 National and International Visits

1. The National Astronomical Observatories, Chinese Academy of Sciences, Beijing (10-16 May 2024), Shanghai Astronomical Observatory, Shanghai (17-20 May 2024) and Beijing Normal University (BNU) China under the BRICS project.
2. National Institute of Technology, Rourkela Odissa India from 2-7 January 2024 under the SERB project.
3. Royal Observatory of Belgium from 9 to 20 October 2023 to attend a one-day workshop entitled “Evaluation and future prospects of the Indo-Belgian collaboration” held on 10 October 2023 to summarize the accomplishments of the BINA project followed by a work visit from 11-20 October 2023.
4. National Astronomical Research Institute of Thailand (NARIT) from 29 April to 13 May 2022 under Indo-Thai bilateral project.
5. Royal Observatory of Belgium from 9 to 12 October 2018 for the second BINA workshop entitled “BINA as an expanding international collaboration” followed by a work visit from 13 to 18 October 2018.
6. Observatoire de la Cote d’Azur Mont-Gros, Nice, France from 4-6 Oct 2017 to attend an international conferences on Asteroseismology and Optical Interferometry.
7. Royal Observatory of Belgium (ROB), Brussels, Belgium from 08 to 21 October 2017 under the BINA project.
8. North West University, Mafikeng South Africa from 21 to 23 March 2017 under Indo-South African Project.
9. University of Johannesburg, South Africa from 24 to 26 March 2017 under the Indo-South African project.

10. South African Astronomical Observatory (SAAO), South Africa, and University of Capetown, South Africa from 27 March to 02 April 2017 under the Indo-South African project.
11. Delhi University from 10 to 16 February 2017 for scientific discussion with Dr. M. K. Das under the MoU between ARIES and Delhi University.
12. Special Astrophysical Observatory (SAO), Russia from 03 to 09 April 2016 under the Indo-Russian bilateral project.
13. Sternberg Astronomical Institute (SAI), Moscow State University, Moscow from 29-31 March 2016 under the Indo-Russian bilateral project.
14. Institute of Astronomy (INASAN), Moscow from 31 March to 02 April 2016 under the Indo-Russian bilateral project.
15. Delhi University, Delhi for scientific discussion with Dr. M. K. Das from 14-19 February 2016 under the MoU between ARIES and Delhi University.
16. University of Delhi for scientific discussion with Dr. M. K. Das from 11 to 16 February 2015 under the MoU between ARIES and Delhi University.
17. SAAO, South Africa from 23 February to 07 March 2014 under Indo-South African project.
18. IIT, Chennai from 26-28 August 2012 for discussion with Dr. Anjum Mukadam of the University of Washington on the development of high-speed photometric system at ARIES.
19. SAAO, South Africa from 05 December 2011 to 20 January 2012 under Indo-South African project.
20. INASAN and SAO, Russia from 05 to 20 September 2011 under the Indo-Russian ILTP project.
21. SAAO, South Africa from 26 April to 19 May 2011 under the Indo-South African project.
22. IUCAA, Pune from 31 January to 03 February 2011 for discussion on the development of an Observatory Control System for 3.6-m telescope.
23. INASAN and SAO, Russia from 24 August to 06 September 2010 under the Indo-Russian project.
24. INASAN, Russia from 10 to 24 May 2009 under the Indo-Russian ILTP project.

15 Visits from Collaborators

1. Prof. Christian Woehler the from Department of Electrical Engineering and Information Technology, Dortmund Germany from 13-20 November 2024.
2. Dr. Kaustubh Hakim from KU Leuven visited from 22-25 April 2024 under the BINA project.
3. Dr. Zúñiga Fernández Sebastián Gaspar from University of Liege, Belgium from 5-15 December 2023 under the BINA project.
4. Dr. Aleksandra Volosatych from Institute of Astronomy, Russian academy of Science (RAS), Russia from 14-21 November 2024 under the BRICS project.

5. Dr. Peter De Cat from Royal Observatory of Belgium, Belgium from 11-24 March 2023 for the third BINA workshop under the BINA project.
6. Dr. Eugene Semenko from NARIT, Thailand visited ARIES from 25 March to 30 March 2023 under Indo-Thai collaboration.
7. Prof. Gregg Wade from from Royal Military College Canada visited ARIES from 25 March to 30 March 2023 and delivered a talk on the topic “Magnetic fields, convection, pulsation, and chemical peculiarities of cool A-type stars”.
8. Prof. Manfred Cunz from the University of Texas at Arlington visited ARIES from 16 March to 25 March 2023 and delivered a talk on the topic Exoplanets, Exomoons, and Exocomets: Research Results from UT Arlington, Texas”.
9. Dr. Bharat Kumar Yerra from IIA, Bangalore visited ARIES from 17 to 19 November 2022 for the scientific discussion on joint scientific proposals.
10. Dr. Somnath Dutta from the Institute of Astronomy and Astrophysics, Taiwan visited ARIES from 25 August to 08 September for scientific discussion and delivered a talk on “Jet and outflow propagation of extremely young stellar objects”.
11. Prof. Aruna, Goswami and Mr. Partha Goswami from IIA, Bangalore visited from 26 February to 03 March 2020 to participate in a workshop jointly organized by ARIES, DST, and NARIT on “Investigation Stellar Variability and Star formation”.
12. Dr. David Mkrtichian and Ms. Khemsinan from NARIT, Thailand visited ARIES from 26 February to 03 March 2020 to participate in a workshop jointly organized by ARIES, DST, and NARIT on “Investigation Stellar Variability and Star formation”.
13. Prof. Jean Surdej from the Department of Astrophysics and Geophysics, University de Liege visited ARIES from 07 to 22 January 2018 under the BINA project for the collaborative work and installation of ILMT.
14. Dr. Nand Kumar Chakradhari from Raipur University, Chhatishgadh visited ARIES from 17 May to 13 June 2016 and 18 May to 12 June 2017 under the MoU between ARIES and Raipur University, Chhatishgadh.
15. Prof. Shashi K. Kanbur from the State University of New York at Oswego, Newyork visited ARIES from 08 to 12 August 2015 and delivered talks on “The HIF/Photosphere Interactions in Cepheids and RR Lyraes and multi-phase PL/PC Relation” at ARIES, Nainital.
16. Dr. Kausal Sharma from Delhi University visited ARIES from 08 to 12 August 2015.
17. Prof. M. K. Das from Delhi University visited ARIES from 23 to 25 November 2014 and delivered a talk on “On Characterization of Trajectories in Restricted 3-Body problem with Radiation Pressure: Application Binary Stellar System Stellar Pulsation: A Non-Linear Perspective”.
18. Dr. Naveen Kumar Bhatraju from Delhi University visited ARIES from 23 to 26 November 2014 and delivered a talk on “Non-linear analysis of Spatio-temporal data: Applications in Biology”.
19. Prof. Ted Williams, Director SAAO, South Africa visited ARIES from 12-15 November 2014 and delivered a talk on “Astronomy at the South African Astronomical Observatory”.

20. Prof. Nithaya Chetty, Deputy CEO of National Research Foundation, South Africa visited ARIES from 12-15 November 2014 and delivered a talk on “Strengthening astronomical cooperation between India and South Africa”.
21. Dr. David Mktrichian from NARIT, Thailand visited ARIES from 30 June to 09 July 2014 and delivered talks on “The progress in detection of p -mode spectra of roAp stars: α Circini and γ Equulei” and “The oEA stars”.
22. Dr. Soumen Mondal and Dr. Ram Krishna Das from S. N. Bose National Center for Basic Sciences, Kolkata visited ARIES from 04 to 08 January 2014.
23. Prof. Chris Engelbrecht from the University of Johannesburg, South Africa visited ARIES from 30 June to 06 July 2013 and delivered two talks on the topics “A study of the correlation between metallicity and opacity driven pulsations in hot stars in LMC” and “Asteroseismology in South Africa and Impact of Kepler data on Oscillating Eclipsing Alogol”.
24. Dr. Pierre van Heerden from SAAO, South Africa visited ARIES from 30 June to 06 July 2013 under the Indo-South African bilateral programme.
25. Dr. Evgeney Semenko from SAO, Russia, visited ARIES from 19 November to 13 December 2013 and delivered a talk on “Spectroscopic study of cool pulsating A and F stars within Indo-Russian DST-RFBR project”.
26. Prof. Luis Balona from SAAO, South Africa visited ARIES from 26-30 March 2013 and delivered a talk on “Activity in A-type Stars”.
27. Dr. Parijat Thakur from Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh visited ARIES from 29 May to 05 June, 2012.
28. Dr. Pierre van Hedren from SAAO, South Africa visited ARIES from 22 April to 21 May, 2012, and delivered a talk on “Nainital-Cape Survey” and “Control System”.
29. Dr. M. Yakopov from SAO, Russia visited ARIES from 23 to 25 March 2012 and delivered a talk on “Fiber-optics high-resolution spectrograph for 1 to 2-m diameter telescope”.
30. Dr. Ulloa Paz from Chile South America visited ARIES from 23 to 25 March, 2012 and delivered a talk on “Psychology”.
31. Dr. Evgeny Semneko from SAO, Russia visited ARIES from 21 September to 05 October 2011 and delivered a talk on “Time Resolved Photometric and Spectroscopic Analysis of a CP star HD 207561”.
32. Dr. Leonid Berdnikov from Sternberg Astronomical Institute, Moscow, Russia visited ARIES from 22 to 31 April 2010.
33. Dr. Sudhanshu Barway from SAAO, South Africa visited ARIES from 22 to 27 November 2010 and delivered a talk on “Lenticular Galaxies”.
34. Dr. Tanya Ryabchikova from INASAN, Russia visited ARIES from 11 to 30 November 2008 and delivered a talk on “Spectroscopic Techniques and Vienna atomic line database”.
35. Dr. M. Sachkov visited ARIES from 11 to 30 November 2008 and delivered a talk on “The roAp star : γ Equilie”.

16 List of Publications

16.1 International Referred Journals (*as a lead author*)

1. Asteroseismology of HD 23734, HD 68703, and HD 73345 using K2–TESS space-based photometry and high-resolution spectroscopy
Santosh Joshi, Athul Dileep, Eugene Semenko, Mrinmoy Sarkar, Otto Trust, Peter De Cat, Patricia Lampens, Marc-Antoine Dupret, Surath C. Ghosh, David Mkrtychian, Mathijs Vanrespaille, Sugyan Parida, Abhay Pratap Yadav, Pramod Kumar S., P. P. Goswami, Muhammed Riyas and Drisya Karinkuzhi
2025, **MNRAS**, 543, 640 (Impact Factor: 5.24)
2. Study of Chemically Peculiar Stars-I: High-resolution Spectroscopy and *K2* Photometry of Am Stars in the Region of M44,
Santosh Joshi, Otto Trust, E. Semenko, P. E. Williams, P. Lampens, P. De Cat, L. Vermeylen, D. L. Holdsworth, R. A. Garcia S. Mathur, A. R. G. Santos, D. Mkrtychian, A. Goswami, M. Cuntz, A. P. Yadav, M. Sarkar, B. C. Bhatt, F. Kahraman Alicavus, M. D. Nhlapo, M. N. Lund, P. P. Goswami, I. Savanov, A. Jorissen, E. Jurua, E. Avvakumova, E. S. Dmitrienko, N. K. Chakradhari, M. K. Das, S. Chowdhury, O. P. Abedigamba, I. Yakunin, B. Letarte, D. Karinku
2022, **MNRAS**, 501, 5854 (Impact Factor: 5.24)
3. High-resolution Spectroscopy and Spectropolarimetry of Selected δ -Sct Pulsating Variables
Santosh Joshi, Eugene Semenko, A. Moiseeva, Kaushal Sharma, Y. C. Joshi, M. Sachkov, Harinder P. Singh, Yerra Bharat Kumar
2017 **MNRAS**, 467, 633 (Impact Factor: 5.24)
4. The Nainital-Cape Survey-IV : Pulsational Variability in 108 Chemically Peculiar Stars
Santosh Joshi, P. Martinez, S. Chowdhury, N. K. Chakradhari, Y. C. Joshi, P. van Heerden, T. Medupe, Y. Bharat Kumar, R. B. Kuhn
2016, **A&A**, 590, 116 (Impact Factor: 6.5)
5. A spectroscopic analysis of the chemically peculiar star HD 207561
S. Joshi, E. Semenko, P. Martinez, M. Sachkov Y. C. Joshi S. Seetha N. K. Chakradhari D. L. Mary V. Girish, B. N. Ashoka
2012, **MNRAS**, 424, 2002 (Impact Factor: 5.24)
6. Time-resolved photometric and spectroscopic analysis of the luminous Ap star HD 103498
S. Joshi, T. Ryabchikova, O. Kochukhov, M. Sachkov, S. K. Tiwari, N. K. Chakradhari, N. Piskunov
2010, **MNRAS**, 401, 1299 (Impact Factor: 5.24)
7. The Nainital-Cape Survey - III : A search for pulsational variability in chemically peculiar stars
S. Joshi, D. L. Mary, N. K. Chakradhari, S. K. Tiwari, C. Billaud
2009, **A&A**, 507, 1763 (Impact Factor: 6.5)

8. The Nainital-Cape Survey – II: Report for pulsation in five chemically peculiar A-type stars and presentation of 140 null results
S. Joshi, D. L. Mary, P. Martinez, D. W. Kurtz, V. Girish, S. Seetha, R. Sagar, B. N. Ashoka
 2006, **A&A**, 455, 303 (Impact Factor: 6.5)
9. Discovery of unusual pulsations in the cool, evolved Am stars HD 98851 and HD 102480
S. Joshi, V. Girish, R. Sagar, D. W. Kurtz, P. Martinez, Brijesh Kumar, S. Seetha, B. N. Ashoka, A. Zhou
 2003, **MNRAS**, 344, 431 (Impact Factor: 5.24)

16.2 Proceedings of Conferences/Workshops/Circulars (*as a lead author*)

10. Proceedings of the 3rd BINA Workshop: Scientific Potential of Indo-Belgian Co-operation
Santosh Joshi, Peter De Cat, Michaël De Becker, Katrien Kolenberg, Soumen Mondal, Shashikiran Ganesh, Laurent Mahy, Drisya Karinkuzhi, Abhay Pratap Yadav, Tapas Baug, Jeewan C. Pandey, Kuntal Misra, C. S. Stalin, Nilakshi Veerabathina, Bhuwan Joshi, David Berghmans, Tom Van Doorselaere
 2024, **BSRSL**, 93, 2, 1 (Impact Factor: 0.5)
11. Study of Chemically Peculiar Stars-III: High-resolution Spectroscopy and K2 Photometry of New Variables in the Region of M44
Santosh Joshi, Otto Trust, Peter E. Williams, Eugene Semenko, Peter De Cat, Edward Jurua, Daniel L. Holdsworth, Rafael García, Patrick O. Abedigamba
 2022, Sub-Saharan Africa Astronomy Summer School (Galaxies, Extrasolar Planets, and Stellar Physics), **ssaa.conf**, 2022, E, 6J
12. Overview of the BINA Activities
Santosh Joshi & Peter De Cat
 2019, **BSRSL**, 88, 19 (Impact Factor: 0.5)
13. Asteroseismology of Pulsating Stars
Santosh Joshi & Yogesh C. Joshi,
 2015, **JAA**, 36, 33 (Impact Factor: 1.61)
14. Photometric and Spectroscopic Analysis of CP Stars Under Indo-Russian Collaboration
S. Joshi, E. Semenko, A. Moiseeva, Y. C. Joshi, M. Sachkov
 2015, Physics and Evolution of Magnetic and Related Stars, eds. I. I. Romanyuk and D. O. Kudryavtsev, 2015, **ASP Conference, Series**, 494, 210
15. Time Resolved Photometric and Spectroscopic Analysis of Chemically Peculiar Stars
S. Joshi, Gireesh C. Joshi, Y. C. Joshi, Rahul Aggrawal
 2015, **IAU**, 307, 218
16. Search for p -mode Pulsations in late-type CP Stars
S. Joshi & N. K. Chakradhari
 2011, **Advance in Geophysics**, 27, 219

17. Time resolved photoelectric, photometric and high-resolution spectroscopic data analysis of a luminous Ap star HD 103498
S. Joshi, Y. C. Joshi, O. V. Ezhkova, M. Sachkov, T. Ryabchikova, O. Kochukhov, N. K. Chakradhari, S. K. Tiwari
 2010, Magnetic Stars conference held at Special Astrophysical Observatory of the Russian Academy of ScienceS, 27 August-01 September 1, 2010, eds: I. I. Romanyuk and D. O. Kudryavtsev, p. 330-341
 18. The Nainital-Cape Survey: Contributions to asteroseismology of CP stars
S. Joshi, V. Girish, P. Martinez, D. W. Kurtz, R. Sagar, S. Seetha, D. L. Mary, B. N. Ashoka
 2007, **CoAst**, 150, 79
 19. Studies of Chemically Peculiar Stars
S. Joshi
 2005, **BASI**, 33, 317
 20. Nainital-Cape Survey: A Search for Variability in Ap and Am Stars
S. Joshi
 2005, **JApA**, 26, 193 (Impact Factor: 0.5)
 21. Discovery of pulsation in the Am Star HD 102480
S. Joshi, V. Girish, R. Sagar, D. W. Kurtz, P. Martinez, S. Seetha
 2002, **CoAst**, 142, 50
 22. Discovery of pulsations in HD 98851
S. Joshi, V. Girish, P. Martinez, R. Sagar, B. N. Ashoka, S. K. Gupta, S. Seetha, U. S. Chaubey, D. W. Kurtz
 2001, **IBVS**, 29, 301
- 16.3 International Referred Journals (*as a co-author*)**
23. Chemical abundances and Doppler imaging of the Ap Si/He-wk star HD 100357
 Athul Dileep, **Santosh Joshi**, Sofya Alexeeva, Oleg Kochukhov, Eugene Semenko, Peter De Cat, Sebastian Zuniga-Fernandez, Otto Trust, Karen Pollard, Lisa Crause, Khalid Barkaoui, Michael Gillon, Emmanuel Jehin and Neeraj Rathore
 2025, **MNRAS**, 542, 747
 24. Unveiling the Variability and Chemical Composition of AL Col
 Surath C. Ghosh, **Santosh Joshi**, Samrat Ghosh, Athul Dileep, Otto Trust, Mrinmoy Sarkar, Jaime Andrés Rosales Guzmán, Nicolás Esteban Castro-Toledo, Oleg Malkov, Harinder P. Singh, Kefeng Tan and Sarabjeet S. Bedi
 2025, **Galaxies**, 13, 93

25. Stellar Variability toward the Galactic Open Cluster NGC 7209
Dorothy M. Mwanzia, Sneh Lata, W. P. Chen, Soumen; Mondal, Geoffrey Okeng'o, John; Buers, Samrat Ghosh, Athul Dileep, Arjav Jain, Alisher S. Hojaev, **Santosh Joshi**
2025, **ApJ**, 985, 26
26. Dynamic Photometric Variability in Three Young Brown Dwarfs in Taurus: Detection of Optical Flares with TESS Data
Samrat Ghosh, Soumen Mondal, Somnath Dutta, Rajib Kumbhakar, Ramkrishna Das, **Santosh Joshi**, Sneh Lata
2025, **ApJ**, 981, 75 (Impact Factor: 4.8)
27. Investigating pulsating variables and eclipsing binaries in NGC 2126 using ground- and space-based photometry, astrometry, spectroscopy, and modelling
Athul Dileep, **Santosh Joshi**, Sneh Lata, Patricia Lampens, Peter De Cat, Sebastian Zuniga-Fernandez, David Mkrtychian, Pramod Kumar S., Mrinmoy Sarkar Alaxender Panchal, Yogesh C. Joshi , Rishi C., Neelam Panwar, Arjav Jain and Neeraj Rathore
2025, **MNRAS**, 538, 1747 (Impact Factor: 5.24)
28. Simultaneous X-ray and optical polarization observations of the blazar Mrk 421
Athira M. Bharathan, C. S. Stalin, S. Sahayanathan, Kiran Wani, Amit Kumar Mandal, Rwitika Chatterjee, **Santosh Joshi**, Jeewan C. Pandey, Blesson Matthew, Vivek K. Agrawal
2024, **ApJ**, 975, 185 (Impact Factor: 4.8)
29. Asteroseismology of the mild Am Delta Sct star HD 118660 : TESS photometry and modelling
Mrinmoy Sarkar, **Santosh Joshi**, Marc-Antoine Dupret, Otto Trust, Peter De Cat, Eugene Semenko, Patricia Lampens, Aruna Goswami, David Mkrtychian, Drisya Karinkuzhi, Ilya Yakunin
2024, **MNRAS**, 534, 3211 (Impact Factor: 5.24)
30. Linear polarization study of open clusters towards the anticenter direction: Signature of the spiral arms;
Namita Uppal, Shashikiran Ganesh, Vincent Pelgrims, **Santosh Joshi**, Mrinmoy Sarkar
2024, **A&A**, 690A, 49 (Impact Factor: 6.5)
31. On the stability and pulsation in models of B[e] star MWC 137
Sugyan Parida, Abhay Pratap Yadav, Michaela Kraus, Wolfgang Glatzel, Yogesh Chandra Joshi, **Santosh Joshi**
2024, **MNRAS**, 527, 7414 (Impact Factor: 5.24)
32. Mode identification and period fitting in six pulsating hot subdwarfs
S. K. Sahoo, A. S. Baran, P. Nemeth, H. L. Worters, S. Pramod Kumar, **S. Joshi**, D. Kilkenny
2024, **PASA**, 11, 41 (Impact Factor: 6.51)
33. HD 12098: a highly distorted dipole mode in an obliquely pulsating roAp star
D. W. Kurtz, H. Saio, D. L. Holdsworth, Santosh Joshi, S. Seetha
2024, **MNRAS**, 529, 556 (Impact Factor: 5.24)

34. High-precision photometric and high-resolution spectroscopic characterization of HD 180347
Otto Trust, Lyudmila Mashonkina, Edward Jurua, Peter De Cat, Vadim Tsymbal, Santosh Joshi
2023, **MNRAS**, 524, 1044 (Impact Factor: 5.24)
35. Photometric variable stars in the young open cluster NGC 6823
Sneh Lata, W. P. Chen, J. C. Pandey, Athul Dileep, Zhong-Han Ai, Alisher S. Hojaev, Neelam Panwar, **Santosh Joshi**, Soumen Mondal, Siddhartha Biswas, B. C. Bhatt
2023, **MNRAS**, 520, 1092 (Impact Factor: 5.24)
36. LAMOST J045019.27+394758.7, with peculiar abundances of N, Na, V, Zn, is possibly a Sculptor dwarf galaxy escapee
Meenakshi Purandardas, Aruna Goswami, J. Shejeelammal, M. Sonamben, Ganesh Pawar, David Mkrtychian, Vijayakumar H., **Santosh Joshi**
2022, **MNRAS**, 513, 4696 (Impact Factor: 5.24)
37. HERMES spectroscopy of normal A and Am stars
Otto Trust, Edward Jurua, Peter De Cat, **Santosh Joshi**, Patricia Lampens
2021, **MNRAS**, 504, 5528 (Impact Factor: 5.24)
38. Asteroseismology of SZ Lyn using multiband high time resolution photometry from ground and space
J. Adassuriya, S. Ganesh, J. L. Gutiérrez, G. Handler, G., **Santosh Joshi**, K. P. S. C. Jayaratne, K. S. Baliyan
2021, **MNRAS**, 502, 541 (Impact Factor: 5.24)
39. Instabilities and pulsations in models of the B-type supergiant κ Cassiopeiae (HD 2905)
Abhay Pratap Yadav, **Santosh Joshi**, Wolfgang Glatzel
2021, **MNRAS**, 500, 5515 (Impact Factor: 5.24)
40. Fast photometric variability of very low mass stars in IC 348: detection of superflare in an M dwarf
Samrat Ghosh, Soumen Mondal, Somnath Dutta, Ramkrishna Das, **Santosh Joshi**, Sneh Lata, Dhrimadri Khata, Alik Panja
2021, **MNRAS**, 500, 5106 (Impact Factor: 5.24)
41. Probing Transit Timing Variation and Its Possible Origin with 12 New Transits of TrES-3b
Vineet Kumar Mannaday, Parijat Thakur, Ing-Guey Jiang, D. K. Sahu, Y. C. Joshi, A. K. Pandey, **Santosh Joshi**, Ram Kesh Yadav, Li-Hsin Su, Devesh P. Sariya, Li-Chin Yeh, Evgeny Griv, David Mkrtychian, Aleksey Shlyapnikov, Vasilii Moskvina, Vladimir Ignatov, M. Vaňko, Ç. Püsküllü
2020, **AJ**, 160, 47 (Impact Factor: 6.26)
42. Census of the Young Stellar Population in the Galactic H II Region Sh2-242
Alik Panja, Soumen Mondal, Somnath Dutta, **Santosh Joshi**, Sneh Lata, Ramkrishna Das
2020, **AJ**, 159, 153 (Impact Factor: 6.26)

43. Variable stars in the field of intermediate-age open cluster NGC 559
Y. C. Joshi, J. Maurya, A. A. John, A. Panchal, **S. Joshi**, B. Kumar
2020, **MNRAS**, 499, 618 (Impact Factor: 5.24)
44. Multiband optical flux density and polarization microvariability study of optically bright blazars
Pasierb Magdalena, Arti Goyal, Michał Ostrowski, Łukasz Stawarz, Paul J. Wiita, Gopal-Krishna, Valeri M. Larionov, Daria A. Morozova, Ryosuke Itoh, Fahri Alicavus, Ahmet Erdem, **Santosh Joshi**, Staszek Zola, Georgy A. Borman, Tatiana S. Grishina, Evgenia N. Kopatskaya, Elena G., Sergey S. Savchenko, Anna A. Nikiforova, Yulia V. Troitskaya, Ivan S. Troitsky, Hiroshi Akitaya, Kawabata Miho, Tatsuya Nakaoka
2020, **MNRAS**, 492, 1295 (Impact Factor: 5.24)
45. Rotation and spots in normal A and Am/Fm stars
Otto Trust, Edward Jurua, Peter De Cat, **Santosh Joshi**
2020, **MNRAS**, 492, 3143 (Impact Factor: 6.26)
46. Photometric, kinematic, and variability study in the young open cluster NGC 1960
Y. C. Joshi, J. Maurya, A. A. John, A. Panchal, **S. Joshi**, B. Kumar
2020, **MNRAS**, 492, 3602 (Impact Factor: 5.24)
47. Optical photometric variable stars towards Cygnus OB7
Somnath Dutta, Soumen Mondal, **Santosh Joshi**, Ramkrishna Das
2019, **MNRAS**, 487, 1765 (Impact Factor: 5.24)
48. A study of pulsation & rotation in a sample of A-K type stars in the Kepler field
Sowgata Chowdhury, **Santosh Joshi**, Chris A. Engelbrecht, Peter De Cat, Yogesh C. Joshi, K. T. Paul
2018, **Ap&SS**, 363, 260 (Impact Factor: 1.83)
49. Optical photometric variable stars towards the Galactic H II region NGC 2282
Somnath Dutta, Soumen Mondal, **Santosh Joshi**, Jessy Jose, Ramkrishna Das, Supriyo Ghosh
2018, **MNRAS**, 476, 2183 (Impact Factor: 5.24)
50. The eclipsing binary star RZ Cas: accretion-driven variability of the multimode oscillation spectrum
D. E. Mkrtichian, H. Lehmann, E. Rodríguez, E. Olson, S. -L. Kim, A. V. Kusakin, J. W. Lee, J. -H. Youn, S. -G. Kwon, M. J. López-González, E. Janiashvili, S. K. Tiwari, **Santosh Joshi**, P. Lampens, P. Van Cauteren, L. Glazunova; A. Gamarova, K. N. Grankin, E. Rovithis-Livaniou, P. Svoboda, R. Uhlár, V. Tsymbal, R. Kokumbaeva, T. Urushadze, K. Kuratov, H. -C. Shin, Y. -W. Kang, B. Soonthornthum
2018, **MNRAS**, 475, 4745 (Impact Factor: 5.24)
51. Multi-wavelength variability study of the classical BL Lac object PKS 0735+178 on timescales ranging from decades to minutes
Arti Goyal, Łukasz Stawarz, Michał Ostrowski, Valeri Larionov, Gopal-Krishna, Paul J. Wiita, **Santosh Joshi**, Marian Soida
2017, **ApJ**, 837, 127 (Impact Factor: 5.9)

52. Study of open clusters within 1.8 kpc and understanding the Galactic structure
Yogesh C. Joshi, A. Dambis, Anil K. Pandey, **Santosh Joshi**
2016, **A&A**, 593, 116 (Impact Factor: 6.5)
53. Photometric Observations of LO Peg in 2014-2015
I. S. Savanov, V. I. Puzin, E. S. Dmitrienko, S. V. Karpov, G. M. Beskin, A. V. Biryukov, S. F. Bondar, E. A. Ivano, E. V. Katkova, N. Orekhova, A. V. Perkov, V. V. Sasyuk, I. I. Romanyuk, E. A. Semenko, D. Kudryavtsev, S. Karmakar, J. C. Pandey, S. B. Pandey, **S. Joshi**, K. Misra
2016, **AcA**, 66, 381 (Impact Factor: 1.9)
54. The hot γ Doradus and Maia stars
L. A. Balona, C. A. Engelbrecht, Y. C. Joshi, **S. Joshi**, K. Sharma, E. Semenko, G. Pandey, N. K. Chakradhari, David Mkrtichian, B. P. Hema, J. M. Nemeč
2016, **MNRAS**, 460, 1318 (Impact Factor: 5.24)
55. LO Peg: Surface Differential Rotation, Flares, and Spot-topographic evolution
Subhajeet Karmakar, J. C. Pandey, I. S. Savanov, G. Tas, S. B. Pandey, K. Misra, **S. Joshi**, E. S. Dmitrienko, T. Sakamoto, N. Gehrels, T. Okajima
2016, **MNRAS**, 559, 3112 (Impact Factor: 5.24)
56. Photometric studies of two W UMa type variables in the field of distant open cluster NGC 6866
Yogesh Chandra Joshi, Rukmini Jagirdar, **Santosh Joshi**
2016, **RAA**, 16, 11 (Impact Factor: 1.89)
57. Population I Cepheids and understanding star formation history of the Small Magellanic Cloud
Yogesh Chandra Joshi, Prasad Mohanty, **S. Joshi**
2016, **RAA**, 16, 9 (Impact Factor: 1.89)
58. Complex system ESO65SC03 : Open cluster or remnant ?
Gireesh C. Joshi, Y. C. Joshi, S. Chowdhury, **S. Joshi**
2015, **PASA**, 32, 22 (Impact Factor: 6.51)
59. Basic Parameters of Open Star Clusters DOLIDZE 14 and NGC 110 in Infrared bands
Gireesh C. Joshi, Y. C. Joshi, **S. Joshi**, R. K. Tyagi
2015, **New Astronomy**, 40, 68 (Impact Factor: 2.1)
60. Population I Cepheids and star formation history of the Large Magellanic Cloud
Y. C. Joshi & **S. Joshi**
2014, **New Astronomy**, 28, 27 (Impact Factor: 2.1)
61. Photometric study of the open clusters - II. Stellar population and dynamical evolution in NGC 559
Y. C. Joshi, L. A. Balona, **S. Joshi**, B. Kumar
2014, **MNRAS**, 437, 804 (Impact Factor: 5.24)

62. Pulsation and rotation of Kepler stars in the NGC 6866 field
L. A. Balona, **S. Joshi**, Y. C. Joshi, R. Sagar
2013, **MNRAS**, 429, 466 (Impact Factor: 5.24)
63. Intra-night optical variability of core dominated radio quasars: the role of optical polarization
Arti Goyal, Gopal-Krishna, Paul J. Wiita, G. C. Anupama, D. K. Sahu, R. Sagar, **S. Joshi**
2012, **A&A**, 544, 37 (Impact Factor: 6.5)
64. Photometric Study and Detection of Variable Stars in the Open Clusters - I : NGC6866
Y. C. Joshi, **S. Joshi**, B. Kumar, S. Mondal, L. A. Balona
2012, **MNRAS**, 419, 2379 (Impact Factor: 5.24)
65. Discovery of the First Giant Double Radio Relic in a Galaxy Cluster Found in the Planck Sunyaev-Zel'dovich Cluster Survey: PLCK G287.0+32.9
J. Bagchi, S. K. Sirothia; Norbert Werner; Mahadev B. Pandge; Nimisha G. Kantharia, C. H. Ishwara-Chandra, Gopal-Krishna, Surajit Paul, **S. Joshi**
2011, **ApJ**, 736, 8 (Impact Factor: 5.9)
66. Rapid Optical Variability of TeV Blazars
Gopal-Krishna, A. Goyal, **S. Joshi**, Chrisphin Karthick, R. Sagar, Paul J. Wiita, G. C. Anupama, D. K. Sahu
2011, **MNRAS**, 416, 101 (Impact Factor: 5.24)
67. Optical variability of radio-intermediate quasars
A. Goyal; Gopal-Krishna, **S. Joshi**, R. Sagar, Paul J. Wiita, G. C. Anupama, D. K. Sahu
2010, **MNRAS**, 401, 2622 (Impact Factor: 5.24)
68. CLOUDS search for variability in brown dwarf atmospheres: Infra-red spectroscopic time series of L/T transition brown dwarfs
B. Goldman, M. C. Cushing, B. Goldman¹, M. C. Cushing, M. S. Marley, É. Artigau, K. S. Baliyan, V. J. S. Béjar, J. A. Caballero, N. Chanover, M. Connelley, R. Doyon, T. Forveille, S. Ganesh, C. R. Gelino¹, H. B. Hammel, J. Holtzman, **S. Joshi**, U. C. Joshi, S. K. Leggett¹, M. C. Liu, E. L. Martín, V. Mohan, D. Nadeau, R. Sagar, D. Stephens
2008, **A&A**, 487, 277 (Impact Factor: 6.5)
69. A giant radio jet ejected by an ultra-massive black hole in a single-lobed radio galaxy
Joydeep, Bagchi, Gopal-Krishna, Marita Krause, **S. Joshi**
2007, **ApJ**, 670, L85 (Impact Factor: 5.9)
70. Super-disks in Radio Galaxies: Jet-Wind Interactions
Gopal Krishna, P. J. Wiita, **S. Joshi**
2007, **MNRAS**, 380, 703 (Impact Factor: 5.24)
71. Pushing the ground-based limit: 14- μ mag photometric precision with the definitive Whole Earth Telescope asteroseismic data set for the rapidly oscillating Ap star HR 1217

D. W. Kurtz, C. Cameron, M. S. Cunha, N. Dolez, G. Vauclair, E. Pallier, A. Ulla, S. O. Kepler, A. da Costa, A. Kanaan, L. Fraga, O. Giovannini, M. A. Wood, N. Silvestri, S. D. Kawaler, R. L. Riddle, M. D. Reed, T. K. Watson, T. S. Metcalfe, A. Mukadam, R. E. Nather, D. E. Winget, A. Nitta, S. J. Kleinman, J. A. Guzik, P. A. Bradley, J. M. Matthews, K. Sekiguchi, D. J. Sullivan, T. Sullivan, R. Shobbrook, X. Jiang, P. V. Birch, B.N.Ashoka, S.Seetha, V. Girish **S.Joshi**, P.Moskalik, S.Zola, D. O'Donoghue, G. Handler, M. Mueller, J. M. Gonzalez Perez, J.-E. Solheim, F. Johannessen, L. Bigot

2005, **MNRAS**, 358, 651 (Impact Factor: 5.24)

72. A Whole Earth Telescope campaign on the pulsating sub-dwarf B binary system PG1336-018 (Ny Vir)

D. Kilkenny, M. D. Reed, D. O'Donoghue, S. D. Kawaler, A. Mukadam, S. J. Kleinman, A. Nitta, T. S. Metcalfe, J. L. Provencal, T. K. Watson, D. J. Sullivan, T. Sullivan, R. Shobbrook, X. J. Jiang, **S. Joshi**, B. N. Ashoka, S.Seetha, E.Leibowitz, P.Ibbetson, H.Mendelson, E.Meistas, R.Kalytis, D. Alisauskas, P. Martinez, F. van Wyk, R. S. Stobie, F. Marang, S. Zola, J.Krzesinski, W.Ogloza, P.Moskalik, R.Silvotti, A.Piccioni, G.Vauclair, N. Dolez, M. Chevreton, S. Dreizler S. L. Schuh, J. L. Deetjen, J.-E. Solheim, J. M. Gonzalez Perez, A. Ulla, R. Ostensen, M. Manteiga, O. Suarez, M. Burleigh, S. O. Kepler, A. Kanaan, O. Giovannini

2003, **MNRAS**, 345, 834 (Impact Factor: 5.24)

73. Constraining the evolution of ZZ Ceti

Anjum S. Mukadam, S.O.Kepler, D.E.Winget, R.E.Nather, M.Kilic, F.Mullally, T.vonHippel, S.J.Kleinman, A.Nitta, J.A.Guzik, P.A.Bradley, J.Matthews, K.Sekiguchi, D.J.Sullivan, T.Sullivan, R.R.Shobbrook, P.Birch, X.J.Jiang, D.W.Xu, **S.Joshi**, B.N.Ashoka, P.Ibbetson, E.Leibowitz, E.O.Ofek, E.G.Meistas, R.Janulis, D.Alisauskas, R.Kalytis, G.Handler, D.Kilkenny, D.O'Donoghue, D.W.Kurtz, M.Mueller, P.Moskalik, W.Ognoza, S.Zona, J.Krzesinski, F.Johannessen, J.M.Gonzalez-Perez, J.-E.Solheim, R.Silvotti, S.Bernabei, G.Vauclair, N.Dolez, J.N.Fu, M.Chevretton, M.Manteiga, O.Suarez, A.Ulla, M.S.Cunha, T.S.Metcalfe, A.Kanaan, L.Fraga, A.F.M.Costa, O.Giovannini, G.Fontaine, P.Bergeron, M.S.O'Brien, D.Sanwal, M.A.Wood, T.J.Ahrens, N.Silvestri, E.W.Klumpe, S.D.Kawaler, R.Riddle, M. D. Reed, T. K. Watson

2003, **ApJ**, 594, 961 (Impact Factor: 5.9)

74. Amplitude and frequency variability of the pulsating DB white dwarf stars KUV05134+2605 and PG 1654+160 observed with Whole Earth Telescope

G. Handler, D. O'Donoghue, M. Mueller, J.-E. Solheim, J. M. Gonzalez-Perez, F. Johannessen, M. Paparo, B. Szeidl, G. Viraghalmy, R. Silvotti, G. Vauclair, N. Dolez, E. Pallier, M. Chevreton, D. W. Kurtz, G. E. Bromage, M. S. Cunha, R. Østensen, L. Fraga, A. Kanaan, A. Amorim, O. Giovannini, S. O. Kepler, A. F. M. da Costa, R. F. Anderson, M. A. Wood, N. Silvestri, E. W. Klumpe, R. F. Carlton, R. H. Miller, J. P. McFarland, A. D. Grauer, S. D. Kawaler, R. L. Riddle, M. D. Reed, R. E. Nather, D. E. Winget, J. A. Hill, T. S. Metcalfe, A. S. Mukadam, M. Kilic, T. K. Watson, S. J. Kleinman, A. Nitta, J. A. Guzik, P. A. Bradley, K. Sekiguchi, D. J. Sullivan, T. Sullivan, R. R. Shobbrook, X. Jiang, P. V. Birch, B. N. Ashoka, S. Seetha, V. Girish, **S. Joshi**, T. N. Dorokhova, N. I. Dorokhov, M. C. Akan, E. G. Meistas, R. Janulis, R. Kalytis, D. Alisauskas, S. K. Anguma, P. C. Kalebwe, P. Moskalik, W. Ogloza, G. Stachowski, G. Pajdosz, S. Zola

2003, **MNRAS**, 340, 103 (Impact Factor: 5.24)

75. Discovery of the 'missing' mode in HR1217 by the Whole Earth Telescope

- D. W. Kurtz, P. S. D. Kawaler, R. L. Riddle, M. D. Reed, M. S. Cunha, M. Wood, N. Silvestri, T. K. Watson, N. Dolez, P. Moskalik, S. Zola, E. Pallier, J. A. Guzik, T. S. Metcalfe, A. S. Mukadam, R. E. Nather, D. E. Winget, D. J. Sullivan, T. Sullivan, K. Sekiguchi, X. Jiang, R. Shobbrook, B. N. Ashoka, S. Seetha, **S. Joshi**, D. O'Donoghue, G. Handler, M. Mueller, J. M. Gonzalez Perez, J.-E. Solheim, F. Johannessen, A. Ulla, S. O. Kepler, A. Kanaan, A. da Costa, L. Fraga, O. Giovannini, J. M. Matthews (the WET collaboration)
2002, **MNRAS**, 330, L57 (Impact Factor: 5.24)
76. HD 12098 - A new Northern hemisphere roAp star
V. Girish, S. Seetha, P. Martinez, **S. Joshi**, B. N. Ashoka, D. W. Kurtz, U. S. Chaubey, S. K. Gupta, R. Sagar
2001, **A&A**, 380, 142 (Impact Factor: 6.5)
77. The Nainital-Cape survey for pulsations in chemically peculiar A-type stars
P. Martinez, D. W. Kurtz, B. N. Ashoka, U. S. Chaubey, V. Girish, S. K. Gupta, **S. Joshi**, K. Kasturirangan, R. Sagar, S. Seetha
2001, **A&A**, 371, 1048 (Impact Factor: 6.5)
78. Seeing and micro-thermal measurements near Devasthal top
C. S. Stalin, R. Sagar, P. Pant, V. Mohan, Brijesh Kumar, Y. C. Joshi, R. K. S. Yadav, **S. Joshi**, Ramesh Chandra, A. K. Durgapal, W. Uddin
2001, **BASI**, 29, 39
79. Development of a three channel photometer for UPSO, Nainital
B. N. Ashoka, Kumar, V. C. Babu, S. Seetha, V. Girish, S. K. Gupta, R. Sagar; **S. Joshi**, P. Narang
2001, **JApA**, 22, 131 (Impact Factor: 1.6)
80. Evaluation of Devasthal site for optical astronomical observations
R. Sagar, C. S. Stalin, A. K. Pandey, W. Uddin, V. Mohan, B. B. Sanwal, S. K. Gupta, R. K. S. Yadav, A. K. Durgapal, **S. Joshi**, Brijesh Kumar, A. C. Gupta, Y. C. Joshi, J. B. Srivastava, U. S. Chaubey, M. Singh, P. Pant, and K. G. Gupta
2000, **A&AS**, 144, 249 (Impact Factor: 5.2)
81. Discovery of rapid oscillations in HD 12098
P. Martinez, V. Girish, **S. Joshi**, D. W. Kurtz, B. N. Ashoka, U. S. Chaubey, S. K. Gupta, R. Sagar, S. Seetha
2000, **IBVS**, 4853
82. Site characterization for the UPSO-TIFR telescope
R. Sagar, W. Uddin, A. K. Pandey, C.S. Stalin, V. Mohan, B. B. Sanwal, S. K. Gupta, R. K. S. Yadav, A. K. Durgapal, **S. Joshi**, Brijesh Kumar, A. C. Gupta, Y. C. Joshi, J. B. Srivastava, U. S. Chaubey, M. Singh, P. Pant, K. G. Gupta, T. D. Padalia
2000, **BASI**, 28, 429

16.4 Proceedings of Conferences/Workshops/Circulars (*as a co-author*)

83. Ground- and space-based investigation of the intermediate-age open star cluster NGC 2126
Athul Dileep; Santosh Joshi; Sneh Lata; Patricia Lampens; Sebastian Zúñiga Fernández; Peter De Cat; David Mkrtichian
8th TESS/15th Kepler Asteroseismic Science Consortium Workshop, held 15-19 July 2024, in Porto, Portugal
2024, *tkas.confE..90D*,
84. Colour-Based Disentangling of Mira Variables and Ultra-Cool Dwarfs
Avdeeva Aleksandra; Kefeng Tan; **Santosh Joshi**; Dana Kovaleva; Harinder P. Singh; Ali Luo; Oleg Malkov
2024, *Peremennye Zvezdy (Variable Stars)*, vol.44, no. 5, p. 50-54
85. TESS Exploration of Targets Investigated for the Nainital-Cape Survey Project
Athul Dileep & **Santosh Joshi**
2024, **BSRSL**, 93, 2, 227 (Impact Factor: 0.5)
86. Photometric Variability of Low Mass Stars and Brown Dwarfs in IC 348 and Taurus Star-Forming Regions
Samrat Ghosh, Soumen Mondal, **Santosh Joshi**, Sneh Lata, Rajib Kumbhakar
2024, **BSRSL**, 93, 2, 623 (Impact Factor: 0.5)
87. Studying of exoasteroids orbiting around WD 1145+017
A. Maliuk, J. Budaj, D. Mkrtichian, Z. Garai, S. Zharikov, T. Pribulla, R. Komžík, A. Kusakin, L. Shestakova, R. Kokumbaeva, I. Reva, **S. Joshi**, A. Valeev, D. Gadelshin, G. Valyavin G., N. A-thano, R. Mennickent, A. Serebryanski, T. G. Kaye
Contributions of the Astronomical Observatory Skalnaté Pleso, 2024, vol. 54, no. 2, p. 98-106
88. Study of instabilities and outbursts in luminous blue variables AF And & R 127
Abhay Pratap Yadav, Sugyan Parida, Yogesh Chandra Joshi; **Santosh Joshi**
2024, **BSRSL**, 2024, 93, 2, 528 (Impact Factor: 0.5)
89. Amplitude Modulation in a δ Sct star HD 118660
Mrinmoy Sarkar, **Santosh Joshi**, Peter De Cat
2024, **BSRSL**, 93, 2, 285 (Impact Factor: 0.5)
90. Curve of Growth Analysis of SZ Lyn
Janaka, Adassuriya, Shashikiran Ganesh, Peter De Cat, **Santosh Joshi**, Chandana Jayaratne
2024, **BSRSL**, 93, 2, 470 (Impact Factor: 0.5)
91. Optical polarisation study of Galactic Open clusters
Namita Uppal, Shashikiran Ganesh, **Santosh Joshi**, Mrinmoy Sarkar, Prachi Prajapati, Athul Dileep
2024, **BSRSL**, 93, 2, 155 (Impact Factor: 0.5)

92. Study of the Balmer decrements for Galactic classical Be stars using the Himalayan Chandra Telescope of India
Gourav Banerjee, Blesson Mathew, Suman Bhattacharyya, Ashish Devaraj, Sreeja S Kartha, **Santosh Joshi**
2024, **BSRSL**, 93, 2, 404 (Impact Factor: 0.5)
93. Insights on the Optical and Infrared Nature of MAXI J0709-159: Implications for High-Mass X-ray Binaries
Suman Bhattacharyya, Blesson Mathew, Gourav Banerjee, G. Singhu, Muneer, Pramod Kumar S., **Santosh Joshi**
2024, **BSRSL**, 93, 2, 636 (Impact Factor: 0.5)
94. Census of Young Stars in Galactic Star Forming Region Sh2-88
Soumita Chakraborty, Soutane Mondal, Alik Panja, Siddhartha Biswas, Sudip Pramanik, Dorothy Mwanzia, **Santosh Joshi**
2024, **BSRSL**, 93, 2, 613 (Impact Factor: 0.5)
95. Detection of variable stars in the Galactic globular cluster M15
Sneh Lata, Athul Dileep, Devesh P. Sariya, **Santosh Joshi**, Neelam Panwar, R. K. S. Yadav, Dorothy Museo Mwanzia
2024, **BSRSL**, 93, 2 315 (Impact Factor: 0.5)
96. Understanding the Magnetic Activity of M dwarfs : Optical and Near-Infrared Spectroscopic Studies
Diya Ram, Soumen Mondal, Samrat Ghosh, **Santosh Joshi**, Dusmanta Patra, Rajib Kumbhakar
2024, **BSRSL**, 93, 2, 358 (Impact Factor: 0.5)
97. Instabilities in models of supergiants MWC 137 and MWC 314
Sugyan Parida, Abhay Pratap Yadav, **Santosh Joshi**
2024, **BSRSL**, 93, 2, 552 (Impact Factor: 0.5)
98. Ground- and space-based investigation of the intermediate-age open star cluster NGC 2126
Athul Dileep, **Santosh Joshi**, Sneh Lata, Patricia Lampens, Sebastian Zúñiga-Fernández, Peter De Cat, David Mkrtichian
2024, 8th TESS/15th Kepler Asteroseismic Science Consortium Workshop, held 15-19 July 2024, in Porto, Portugal
99. Optical observations of star clusters NGC 1513 and NGC 4147; white dwarf WD 1145+017 and K band imaging of star-forming region Sh 2-61 with the 3.6-m Devasthal optical telescope
Ram Sagar, R. K. S. Yadav, S. B. Pandey, Saurabh Sharma, Sneh Lata, **Santosh Joshi**
2022, **JApA**, 43, 31 (Impact Factor: 1.6)
100. Starspots and rotation velocities of normal A and Am stars
O. Trust, E. Jurua , P. De Cat, **S. Joshi**,
2019, Stars and their Variability Observed from Space, conference held in Vienna on August 19-23, 2019. Eds.: C. Neiner, W. W. Weiss, D. Baade, R. E. Griffin, C. C. Lovekin, A. F. J. Moffat. University of Vienna, 2020, pp.433-434

101. The spectroscopic multiplicity fraction in a sample of A/F-type (candidate) hybrid stars from the Kepler mission, 2020
P. Lampens, L. Vermeyleen, P. De Cat, Á. Sodór, Zs Bógnar, Y. Frémat, M. Skarka, H. Lehmann, A. Samadi, L. Fox-Machado, **S. Joshi**
2019, Stars and their Variability Observed from Space, conference held in Vienna on August 19-23, 2019. Eds.: C. Neiner, W. W. Weiss, D. Baade, R. E. Griffin, C. C. Lovekin, A. F. J. Moffat. University of Vienna, 2020, pp.353-354
102. Rotation rates of pre-main sequence stars: role of circumstellar disk
S. Dutta, S. Mondal, **S. Joshi**, R. K. Das
2019, **BSRSL**, 88, 103 (Impact Factor: 0.5)
103. Ground-based photometric survey to search for the pulsational variability in Bp, Ap, and Am stars
D. Nhlapo, **S. Joshi**, B. Letarte, N. K. Chakradhari, S. K. Tiwari
2019, **BSRSL**, 88, 248 (Impact Factor: 0.5)
104. Characterization of pre-main sequence population in HII region Sh2-242
A. Panja, S. Mondal, S. Dutta, **S. Joshi**, S. Lata, R. Das, S. Biswas
2019, **BSRSL**, 88, 270 (Impact Factor: 0.5)
105. A search for fast photometric variability in very low mass stars and brown dwarfs
S. Ghosh, S. Mondal, R. Das, **S. Joshi**, S. Lata, S. Biswas
2019, **BSRSL**, 88, 275 (Impact Factor: 0.5)
106. Proceedings of the 2nd BINA workshop : BINA as an expanding international collaboration
P. De Cat, P. Lampens, **S. Joshi**, M. De Becker, A. Jorissen
2019, **BSRSL**, 2019, 88, 1 (Impact Factor: 0.5)
107. Instrumentation and Science with the 3.6-m DOT and 4-m ILMT telescopes
Peter De Cat, Jean Surdej, Amitesh Omar, Michaël De Becker, **Santosh Joshi**,
2018, **BSRSL**, 87, 1 (Impact Factor: 0.5)
108. The Nainital Cape Survey Project : A Search for Pulsation in Chemically Peculiar Stars
Nand Kumar Chakradhari & **Santosh Joshi**
2018, **BSRSL**, 87, 150 (Impact Factor: 0.5)
109. History of initial fifty years of ARIES: A Major National Indian Facility for Optical Observations
Basant Ballabh Sanwal, Anil Kumar Pandey, Wahab Uddin, Brijesh Kumar, **Santosh Joshi**
2018, **BSRSL**, 87, 15 (Impact Factor: 0.5)
110. 3.6-m Devasthal Optical Telescope Project: Completion and first results
Brijesh Kumar, Amitesh Omar, Maheswar Gopinathan, Anil Kumar Pandey, Ram Sagar, Wahab Uddin, Basant Ballabh Sanwal, Tarun Bangia, Tripurari Satyanarayana Kumar, Shobhit Yadav, Sanjit Sahu, Jayshreekar Pant, Bheemireddy Krishna Reddy, Alok Chandra Gupta, Hum Chand, Jeewan Chandra Pandey, Mohit Kumar Joshi, Mukeshkumar Jaiswar, Nandish

Nanjappa, Purushottam, Rama Kant Singh Yadav, Saurabh Sharma, Shashi Bhushan Pandey, **Santosh Joshi**, Yogesh Chandra Joshi, Sneha Lata, Biman Jyoti Medhi, Kuntal Misra, Mahendra Singh

2018, **BSRSL**, 87, 29 (Impact Factor: 0.5)

111. Low resolution spectroscopic investigation of Am stars using Automated method

Kaushal Sharma, Harinder P. Singh, **Santosh Joshi**

2018, **BSRSL**, 87, 121 (Impact Factor: 0.5)

112. Analysis of HD 73045 light curve data

Mrinal Kanti Das, Naveen Kumar Bhatraju, **Santosh Joshi**

2018, **BSRSL**, 87, 158 (Impact Factor: 0.5)

113. Understanding of variability properties in very low mass stars and brown dwarfs

Soumen Mondal, Samrat Ghosh, Dhrimadri Khata, **Santosh Joshi**, Ramkrishna Das

2018, **BSRSL**, 87, 242 (Impact Factor: 0.5)

114. A census of variable stars in the young cluster NGC 2282

S. Dutta, S. Mondal, Ramkrishna Das, **Santosh Joshi**, Jessy Jose, Supriyo Ghosh

2016, **COSP**, 41, 514

115. Intranight optical variability of core dominated quasars and TeV Blazars

Paul Wiita, A. Goyal, G. Krishna, G. C. Anupama, D. K. Sahu, **S. Joshi**, C. Karthick, R. Sagar

2011, **AAS**, 2183270

116. A giant radio jet of very unusual polarization in a single-lobed radio galaxy

J. Bagchi, Gopal-Krishna, M. Krause, C. Konar, **S. Joshi**

2009, **ASP Conf. Series**, 407, 200

117. High Precision with the Whole Earth Telescope: Lessons and Some Results from XCov20 for the roAp Star HR 1217

D. W. Kurtz, P S. D. Kawaler, R. L. Riddle, M. D. Reed, M. S. Cunha, M. Wood, N. Silvestri, T. K. Watson, N. Dolez, P. Moskalik, S. Zola, E. Pallier, J. A. Guzik, T. S. Metcalfe, A. S. Mukadam, R. E. Nather, D. E. Winget, D. J. Sullivan, T. Sullivan, K. Sekiguchi, X. Jiang, R. Shobbrook, P. B. Birch, B. N. Ashoka, S. Seetha, **S. Joshi**, V. Girish, D. O'Donoghue, G. Handler, M. Mueller, J. M. Gonzalez Perez, J.-E. Solheim, F. Johannessen, A. Ulla, S. O. Kepler, A. Kanaan, A. da Costa, L. Fraga, O. Giovannini, J. M. Matthews, C. Cameron, G. Vauclair, A. Nitta, S. J. Kleinman

2003, **Baltic Astronomy**, 12, 105

118. Constraining the Evolution of ZZ Ceti

Anjum S. Mukadam, S.O.Kepler, D.E.Winget, R.E.Nather, M.Kilic, F.Mullally, T.vonHippel, S.J.Kleinman, A.Nitta, J.A.Guzik, P.A.Bradley, J.Matthews, K.Sekiguchi, D.J.Sullivan, T.Sullivan, R.R.Shobbrook, P.Birch, X.J.Jiang, D.W.Xu, **S.Joshi**, B.N.Ashoka, P.Ibbetson, E.Leibowitz, E.O.Ofek, E.G.Meis̃tas, R.Janusis, D.Alis̃auskas, R.Kalytis, G.Handler, D.Kilkenny, D.O'Donoghue,

D.W.Kurtz, M.Mu ller, P.Moskalik, W.Ognoza, S.Zona, J.Krzesin ski, F.Johannessen, J.M.Gonzalez-Perez, J.-E.Solheim, R.Silvotti, S.Bernabei, G.Vauclair, N.Dolez, J.N.Fu, M.Chevreton, M.Manteiga, O.Sua rez, A.Ulla, M.S.Cunha, T.S.Metcalf, A.Kanaan, L.Fraga, A.F.M.Costa, O.Giovannini, G.Fontaine, P.Bergeron, M.S.O'Brien, D.Sanwal, M.A.Wood, T.J.Ahrens, N.Silvestri, E.W.Klumpe, S.D.Kawaler, R.Riddle, M. D. Reed, T. K. Watson

2003, **Baltic Astronomy**, 12, 71

119. New pulsating variables discovered from the Naini Tal-Cape survey
S. Seetha, B. N. Ashoka, **S. Joshi**, V. Girish, R. Sagar, U. S. Chaubey, S. K. Gupta
2002, **BASI**,30, 623
120. Automated Data Acquisition and Analysis System for the UPSO Three Channel Fast Photometer
S. K. Gupta; **S. Joshi**; V. Girish; Ram Sagar; B. N. Ashoka; S. Seetha; Harinder P. Singh; M. K. Das
2002, **ADAAS Conf. Series**, 205
121. UPSO three channel fast photometer
S. K. Gupta, R. Sagar, **S. Joshi**, B. N. Ashoka, V. C. Babu, S. Seetha, V. Girish
2001, **BASI**, 29, 479
122. Naini Tal-Cape survey for pulsating chemically peculiar stars - A status report
S. Seetha, U. S. Chaubey, V. Girish, **S. Joshi**, B. N. Ashoka, S. K. Gupta, D. W. Kurtz, Peter Martinez, Ram Sagar
2001, **BASI**, 29, 309
123. HD 12098 a new far-Northern roAp star
V. Girish, **S. Joshi**, S. Seetha, B. N. Ashoka, P. Martinez, U. S. Chaubey, S. K. Gupta, D. W. Kurtz, R. Sagar
2001, **BASI**,29, 305
124. Survey for roAp stars in the Northern sky from Nainital
B. N. Ashoka, S. Seetha, E. Raj, U. S. Chaubey, S. K. Gupta, **S. Joshi**, Peter Martinez, D. W. Kurtz, Ram Sagar, K. Kasturirangan
2000, **BASI**, 28, 251
125. A Survey for pulsating Ap Stars from Nainital
P. Martinez, D. W. Kurtz, U. S. Chaubey, S. K. Gupta, **S. Joshi**, R. Sagar, B. N. Ashoka, S. Seetha
2000, **ASP Con. Series**,203, 485
126. Discovery of δ Scuti Pulsations in HD 98851, S. Joshi; V. Girish; P. Martinez; R. Sagar; B. N. Ashoka; S. K. Gupta; S. Seetha; D. W. Kurtz; U. S. Chaubey
2000, **IBVS** , 4900, 1

16.5 Summary of Research Publications (based on ADS and Google Scholar)

Total no. of papers : 126

Lead author : 22

Total no. of citations : 1920

H-index : 29 (based on Goggle Scholar)

I, hereby certify that the foregoing information is correct and complete to the best of my knowledge and belief.

(Santosh Joshi)