

# LIST OF PUBLICATIONS

Aryabhata Research Institute of Observational Sciences  
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(An Autonomous Scientific Research Institute of Department of  
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## ABBREVIATIONS

*AA*: Astronomy and Astrophysics  
*AASS*: Astronomy and Astrophysics Supplement Series  
*ACTA*: Acta Astronomica  
*AAQR*: Aerosol and Air Quality Research  
*AJ*: Astronomical Journal  
*ANG*: Annals de Geophysique  
*Ap. J.*: Astrophysical Journal  
*ASP*: Astronomical Society of Pacific  
*ASR*: Advances in Space Research  
*ASS*: Astrophysics and Space Science  
*AE*: Atmospheric Environment  
*AR*: Atmospheric Research  
*ASL*: Atmospheric Science Letters  
*BA*: Baltic Astronomy  
*BAC*: Bulletin Astronomical Institute of Czechoslovakia  
*BAJ*: Bulgarian Astronomical Journal  
*BASI*: Bulletin of the Astronomical Society of India  
*BIVS*: Bulletin of the Indian Vacuum Society  
*BNIS*: Bulletin of National Institute of Sciences  
*CJAA*: Chinese Journal of Astronomy and Astrophysics  
*CS*: Current Science  
*EPS*: Earth Planets Space  
*GRL* : Geophysical Research Letters  
*IAU*: International Astronomical Union  
*IBVS*: Information Bulletin on Variable Stars  
*IJHS*: Indian Journal of History of Science  
*IJPAP*: Indian Journal of Pure and Applied Physics  
*IJRSP*: Indian Journal of Radio and Space Physics  
*INSA*: Indian National Science Academy  
*JAA*: Journal of Astrophysics and Astronomy  
*JAMC*: Journal of Applied Meteorology and Climatology

*JATP*: Journal of Atmospheric and Terrestrial Physics  
*JBAA*: Journal of British Astronomical Association  
*JCAP*: Journal of Cosmology and Astroparticle Physics  
*JESS* : Jr. of Earth System Science  
*JGR* : Journal of Geophysical Research  
*JIGR*: Journal of Indian Geophysical Research  
*JKAS*: Journal of Korean Astronomical Society  
*JQSRT*: Journal of Quantitative Spectroscopy and Radiative Transfer  
*JRAS*: Journal of Royal Astronomical Society of Canada  
*JSIR*: Journal of Scientific and Industrial Research  
*KOB*: Kodiakanal Observatory Bulletins  
*MNRAS*: Monthly Notices of the Royal Astronomical Society  
*MRAS*: Memoires of Royal Astronomical Society  
*MSAI*: Memorie della Società Astronomica Italiana  
*MP,EMP*: The Moon and Planets or Earth, Moon and Planets  
*NA*: New Astronomy  
*OPT*: Journal of Optics  
*OBS*: The Observatory  
*PASA*: Proceedings of the Astronomical Society of Australia  
*PASJ*: Publications of the Astronomical Society of Japan  
*PNAS*: Proceedings of National Academy of Sciences  
*PR*: The Physical Review  
*RMAA*: Revista Mexicana de Astronomiay Astrofisiaca  
*SA*: Soviet Astronomy  
*SP*: Solar Physics  
*SSR*: Space Science Reviews  
*UB*: Universe and Beyond  
*VN*: Vac News  
*ZA*: Zeitschrift fur Astrophysik

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## DOCTORAL THESES

1. STUDIES OF THE NIGHT AIRGLOW, **P. P. Saxena** (S. D. Sinvhal), *Agra University (April, 1969)*, 1970.
2. STUDIES IN THE COLOURS AND MAGNITUDES OF SHORT PERIOD CEPHEIDS, **S. C. Joshi** (S. D. Sinvhal), *Agra University (Nov., 1969)*, 1970.
3. STUDIES IN ENERGY TRANSPORT THROUGH THE SOLAR ATMOSPHERE, **L. M. Punetha** (M. C. Pande), *Agra University (April, 1971)*, 1972.
4. STUDIES IN ECLIPSING BINARIES, **C. D. Kandpal** (S. D. Sinvhal), *Agra University (July, 1974)*, 1975.
5. SPECTROPHOTOMETRIC STUDIES OF LATE TYPE STARS, **J. P. Chaturvedi** (S. D. Sinvhal & D. Sharma), *Gorakhpur University (Sept., 1974)*, 1975.
6. STUDIES IN SHORT PERIOD CEPHEIDS, **H. S. Mahra** (S. D. Sinvhal), *Agra University (Nov., 1974)*, 1975.
7. STUDIES IN ECLIPSING BINARIES, **J. B. Srivastava** (S. D. Sinvhal), *Agra University (Aug., 1976)*, 1977.
8. MOLECULES IN SUNSPOTS, **V. P. Gaur** (M. C. Pande), *Agra University (Nov., 1977)*, 1977.
9. MOLECULES IN THE SOLAR ATMOSPHERE, **K. Sinha** (M. C. Pande & D. Sharma), *Gorakhpur University (Aug., 1978)*, 1980.
10. STARS IN THE INSTABILITY STRIP OF THE H-R DIAGRAM, **S. K. Gupta** (S. D. Sinvhal), *Agra University (Sep., 1979)*, 1980.
11. STUDIES IN STAR CLUSTERS, **R. Sagar** (S. D. Sinvhal & D. Sharma), *Gorakhpur University (Sep., 1979)*, 1981.
12. STUDIES IN ECLIPSING BINARY SYSTEMS, **T. D. Padalia** (S. D. Sinvhal), *Kumaun University (March, 1980)*, 1981.
13. STUDIES IN STAR CLUSTERS, **U. C. Joshi** (S. D. Sinvhal), *Kumaun University (Nov., 1980)*, 1981.
14. STUDIES OF SUNSPOTS, **G. C. Joshi** (M. C. Pande), *Kumaun University (Nov., 1980)*, 1982.
15. STUDIES IN SOLAR FACULAE, **B. M. Tripathi** (M. C. Pande), *Agra University (Feb., 1981)*, 1981.

16. ABSOLUTE ENERGY DISTRIBUTION IN STARS, **B. S. Rautela** (S. C. Joshi), *Kumaun University (April, 1981)*, 1982.
17. STUDIES IN ALGOL TYPE ECLIPSING BINARY SYSTEMS, **R. K. Srivastava** (S. D. Sinhal), *Kumaun University (March, 1983)*, 1984.
18. SOME STUDIES OF PROMINENCE CORONAL HOLES AND FLARE RELATED PHENOMENA, **R. N. Shelke** (M. C. Pande), *Kumaun University (Aug., 1985)*, 1986.
19. STUDIES IN EVOLUTION OF CLOSE BINARY STARS, **U. S. Chaubey** (C. D. Kandpal), *Kumaun University (Sept., 1985)*, 1988.
20. SPECTROPHOTOMETRIC STUDY OF BE STARS, **P. S. Goraya** (S. C. Joshi & H. S. Gurm), *Punjabi University (Sept., 1985)*, 1987.
21. SOME STUDIES RELATED TO SOLAR FLARES AND PROMINENCES, **P. Pant** (M. C. Pande), *Kumaun University (March, 1986)*, 1988.
22. STUDIES OF SOLAR FLARES, SURGES AND RELATED PHENOMENA, **V. K. Verma** (M. C. Pande), *Kumaun University (July, 1986)*, 1988.
23. STUDIES OF SOME EARLY TYPE STARS, **M. Singh** (M. C. Pande), *Kumaun University (Sept., 1987)*, 1991.
24. PHOTOMETRIC STUDIES IN STAR CLUSTERS, **A. K. Pandey** (H. S. Mahra), *Kumaun University (Nov., 1987)*, 1991.
25. STUDIES OF FACULAR MODELS, **K. R. Bondal** (M. C. Pande), *Kumaun University (March, 1988)*, 1991.
26. SPECTROPHOTOMETRIC STUDIE IN CEPHEIDS, **B. B. Sanwal** (S. C. Joshi), *Kumaun University (Dec., 1988)*, 1991.
27. SOME STUDIES ON SOLAR ACTIVITY, **W. Uddin** (M. C. Pande), *Kumaun University (Dec., 1992)*, 1993.
28. STUDIES IN STAR CLUSTERS, **B. C. Bhatt** (H. S. Mahra), *Kumaun University (May, 1993)*, 1993.
29. ACTIVITY FROM SOLAR CYCLE 22, **Anita Joshi** (V. P. Gaur), *Kumaun University (Dec., 1996)*, 1998.
30. ASTROMETRIC AND CCD PHOTOMETRIC STUDIES OF GALACTIC GLOBULAR CLUSTERS, **A. C. Gupta** (U. S. Pandey & R. Sagar), *Gorakhpur University (Sept., 1998)*, 1999.
31. PHOTOMETRIC STUDIES OF INTERMEDIATE AND OLD AGE GALACTIC STAR CLUSTERS, **A. K. Durgapal** (A. K. Pandey), *Kumaun University (Feb., 2001)*, 2002.

32. SPATIAL STRUCTURE OF GALACTIC STAR CLUSTERS, **Nilakshi (R. Sagar)**, *Kumaun University (June, 2001)*, 2002.
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34. A COMPARATIVE INTRA-NIGHT OPTICAL MICRO-VARIABILITY OF HIGH LUMINOSITY AGN CLASSES, **C. S. Stalin** (R. Sagar & Gopal-Krishna), *Kumaun University (Oct., 2002)*, 2003.
35. STUDIES OF YOUNG STELLAR OBJECTS, **R. K. S. Yadav** (R. Sagar), *Kumaun University (Dec., 2002)*, 2003.
36. STUDY OF CATAclysmic VARIABLE STARS, **B. N. Ashoka** (R. Sagar & S. Seetha), *Kumaun University (Feb. 2003)*, 2003.
37. SEARCH FOR MICROLENSING EVENTS USING PIXEL METHOD, **Y. C. Joshi** (A. K. Pandey & D. Narasimha), *Kumaun University (Sep., 2003)*, 2004.
38. SPECTROPHOTOMETRIC STUDIES OF YOUNG STAR CLUSTERS, **B. Kumar** (B. B. Sanwal), *Kumaun University (Feb., 2004)*, 2004.
39. STUDIES OF CHEMICALLY PECULLAR STARS, **S. Joshi** (R. Sagar & P. Martinez), *Kumaun University (July, 2004)*, 2005.
40. STUDIES IN STAR CLUSTERS, **K. Upadhyay**, (U. S. Pandey & A. K. Pandey), *D. D. U. Gorakhpur University (July, 2004)*, 2005.
41. OPTICAL STUDIES OF GRB RELATED EVENTS, **S. B. Pandey** (R. Sagar & D. Bhattacharya), *Kumaun University (June, 2005)*, 2005.
42. OPTICAL STUDIES OF X-RAY PECULIAR CHROMOSPHERICALLY ACTIVE STARS, **J. C. Pandey** (R. Sagar & K. P. Singh), *Kumaun University (August, 2005)*, 2006.
43. PHOTOMETRIC STUDIES OF GALACTIC OPEN STAR CLUSTERS, **Snehlata**, (R. Sagar), *Kumaun University (Dec., 2005)*, 2006.
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47. STUDY OF THE ERUPTIVE SOLAR EVENTS: FLARES, ERUPTIVE PROMINENCES AND ASSOCIATED CMES, **S. S. Ali**, (W. Uddin & A. Qaiyum), *Kumaun University (August, 2007)*, 2007.

48. MULTI-WAVELENGTH STUDIES OF ENERGETIC COSMIC EXPLOSIONS, **K. Misra**, (R. Sagar, D. Bhattacharya & K. Pandey), *Kumaun University (December, 2007)*, 2008.
49. CHARACTERISTICS OF AEROSOL SPECTRAL OPTICAL DEPTHS OVER NAINITAL - A HIGH-ALTITUDE STATION IN THE SHIVALIK RANGES OF CENTRAL HIMALAYAS, **U. C. Dumka**, (R. Sagar, K. K. Moorthy & K. Pandey), *Kumaun University (February, 2008)*, 2008.
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51. STUDIES OF PULSATIONS IN CHEMICALLY PECULIAR STARS, **S. K. Tiwari**, (U. S. Pandey & U. S. Chaubey), *D. D. U. Gorakhpur University (September, 2008)*, 2009.
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53. INTRA-NIGHT OPTICAL VARIABILITY AND THE JET DOMINANCE IN ACTIVE GALACTIC NUCLEI, **A. Goyal**, (R. Sagar), *Kumaun University (December, 2009)*.
54. INVESTIGATION OF MESOSPHERIC VARIABILITY WITH THE HELP OF AIRGLOW EMISSIONS, **A. Guharay**, (B. Pande & P. Pant), *Kumaun University (December, 2009)*, 2010.