

# Alok Kumar Durgapal

## (Curriculum Vitae)

### (I) Brief Biodata –

Date of Birth : August 28, 1971  
Present designation : Professor  
Date of Joining : February 28, 2005  
Contact Address : Department of Physics, D.S.B. Campus,  
Kumaun University, Nainital ,  
Uttarakhand, 263002  
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### Education

1985 : Highschool ( 76.6%, UP Board Allahabad)  
1987 : Intermediate ( 72.4%, UP Board Allahabad)  
1991 : B.Sc. (68.9%, Kumaun University, Nainital)  
1993 : M.Sc. (60%, Physics, University of Roorkee (presently IIT Roorkee))  
2002 : Ph.D. (ARIES / Kumaun University, Nainital)

### (II) Membership of Scientific Societies –

Member of Astronomical Society of India (ASI)

### (III) Teaching / Research Experience –

March, 2020 – Continued	Professor	Department of Physics, Kumaun University, Nainital.
March, 2017 – February, 2020	Associate Professor	Department of Physics, Kumaun University, Nainital.
February, 2005 – February, 2017	Assistant Professor	Department of Physics, Kumaun University, Nainital.
November, 2001 – February, 2005	Assistant Professor	Graphic Era University, Dehradun.
July, 1994 – October, 2001	Research Fellow	ARIES, Nainital.

## (IV) Research Interest –

### **Study of Galactic star clusters**

Stellar evolution and history of star formation in star clusters, Luminosity and mass function, Dynamical evolution, Pre- main sequence stars.

### **Study of globular clusters**

Cluster formation history, Population gradients, Luminosity and mass function.

### **Proper motion study of open and globular clusters**

Membership probability of stars, Absolute proper motion, Space motion.

## (V) Ph.D. Supervision –

1. Three research scholar have been awarded Ph.D. degree.
2. One research scholar is currently working.

## (VI) List of publications –

1. Geeta Rangwal, R.K.S. Yadav, D. Bisht, **Alok Durgapal**, Devesh P. Sariya, 2023, to be Submitted in MNRAS.
2. Harmeen Kaur, Saurabh Sharma, **Alok Durgapal**, Lokesh K. Dewangan, Aayushi Verma, Neelam Panwar, Rakesh Pandey, Arpan Gosh, 2023, Submitted to JAA.
3. D. Bisht, Qingfeng Zhu , W. H. Elsanhoury, R. K. S. Yadav, Geeta Rangwal, Devesh P. Sariya, **Alok Durgapal**, Ing-Guey Jiang, 2022, AJ, 164, 171B.
4. D. Bisht, Qingfeng Zhu, R.K.S. Yadav, Geeta Rangwal, Devesh P. Sariya, **Alok Durgapal**, Ing-Guey Jiang, 2022, PASP, 134d4201B.
5. D. Bisht, Qingfeng Zhu , W. H. Elsanhoury, Devesh P. Sariya, Geeta Rangwal, R. K. S. Yadav, **Alok Durgapal**, Ing-Guey Jiang, 2021, PASJ, 73, 677.
6. D. Bisht, Z. Qingfeng, R. K. S. Yadav, S. Ganesh, Geeta Rangwal, **Alok Durgapal**, D. P. Sariya, Ing-Guey Jiang, 2021, MNRAS, 503, 5929.
7. D. Bisht, Z. Qingfeng, R. K. S. Yadav, Geeta Rangwal, **Alok Durgapal**, D. P. Sariya, Ing-Guey Jiang, 2021, AJ, 161, 182.
8. D. Bisht, W. H. Elsanhoury, Qingfeng Zhu, Devesh P. Sariya, R. K. S. Yadav, Geeta Rangwal, **Alok Durgapal** and Ing-Guey Jiang, 2020, AJ, 160, 119.

9. Harmeen Kaur, Saurabh Sharma, Lokesh K. Dewangan, Devendra K. Ojha, **Alok Durgapal** and Neelam Panwar, 2020, ApJ, 896, 29.
10. **Alok Durgapal**, Geeta Rangwal, Harmeen Kaur, R. K. S. Yadav and J. C. Pandey, 2020, JAA, 41, 13.
11. Ayesha Anjum, C. S. Stalin, Suwendu Rakshit, S. B. Gudennavar and **Alok Durgapal**, 2020, MNRAS, 764, 774.
12. **Alok Durgapal**, D. Bisht, Geeta Rangwal, Harmeen kaur and R. K. S. Yadav, 2020, New astronomy, 78, 101364.
13. D. Bisht, Qingfeng Zhu, R. K. S. Yadav, **Alok Durgapal** and Geeta Rangwal, 2020, MNRAS, 494, 607.
14. Geeta Rangwal, R. K. S. Yadav, **Alok Durgapal**, D. Bisht and D. Nardiello, 2019, MNRAS, 490, 1383.
15. **Alok Durgapal**, 2019, IARJSET, 6, 5.
16. Harmeen Kaur, Saurabh Sharma, **Durgapal A. K.**, 2019, J. Mountain Res., 14, 85.
17. **Durgapal A. K.**, Rangwal G. And Yadav R. K. S., 2019, J. Mountain Res., 14, 81.
18. Rangwal G., Yadav R. K. S. and **Durgapal A. K.**, 2019, J. Mountain Res., 14, 35.
19. Bisht D., Yadav R. K. S., Ganesh Shashikiran , **Durgapal A. K.**, Rangwal G. and Fynbo J. P. U., 2019, MNRAS, 482, 1471.
20. **Durgapal A. K.**, Bisht D., Yadav R. K. S., 2018, Bulletin de la Société Royale des Sciences de Liège, 87, 234.
21. Bisht D., Ganesh Shashikiran, Baliyan K. S., Yadav R. K. S., **Durgapal A. K.** and Rangwal G., 2018, Bulletin de la Société Royale des Sciences de Liège, 87, 229.
22. Bisht D., Ganesh Shashikiran, Yadav R. K. S., **Durgapal A. K.** and Rangwal G., 2018, Advances in Space Research, 61, 571.
23. Rangwal G. Yadav R. K. S., **Durgapal A. K.**, Bisht D., 2017, PASA, 34, 68.
24. Bisht D., Yadav R. K. S., **Durgapal A. K.**, 2017, New Astronomy, 55, 64.
25. Bisht D., Yadav R. K. S., **Durgapal A. K.**, 2016, New Astronomy, 49, 1.
26. Bisht D., Yadav R. K. S., **Durgapal A. K.**, 2016, New Astronomy, 47, 19.
27. Bisht D., Yadav R. K. S., **Durgapal A. K.**, 2016, New Astronomy, 42, 66.

28. Kesarwani K., Dobhal D. P., **Durgapal A. K.**, and Mehta M., 2015, Himalayan Geo, 36, 134.
29. Bisht D., Yadav R. K. S., **Durgapal A. K.**, 2013, New Astronomy, 25, 103.
30. Fynbo J. P. U. et al., (including **Durgapal, A. K.**) 2011, MNRAS, 413, 2481.
31. Fynbo J. P. U. Et al., (including **Durgapal, A. K.**) 2010, MNRAS, 408, 2128.
32. **Durgapal, A. K.**, Pandey, A. K. , Pandey, J. C., 2005, BASI, 33, 376.
33. **Durgapal A. K.**, 2001, BASI, 29, 389.
34. **Durgapal A. K.**, Pandey A. K., 2001, A&A, 375, 840.
35. **Durgapal A. K.**, Pandey A. K., Mohan V., 2001, A&A, 372, 71.
36. Stalin, C. S., et al. (including **Durgapal A. K.**), 2000, BASI, 29, 39.
37. Sagar R., et al. (including **Durgapal A. K.**), 2000, BASI, 28, 429.
38. Sagar R., et al. (including **Durgapal A. K.**), 2000, A&AS, 144, 349.
39. **Durgapal A. K.**, 1999, arse.conf, 139.
40. **Durgapal A. K.**, Pandey A. K., Mohan V., 1998, BASI, 26, 551
41. **Durgapal A. K.**, Pandey A. K., Mohan V., 1997, BASI, 25, 489.
42. Pandey A. K., **Durgapal A. K.**, Bhatt B. C., Mohan V., Mahara H. S., 1997, A&AS, 122, 111.
43. **Durgapal A. K.**, Mohan V., Pandey A. K., Mahara H. S., 1996, BASI, 24, 701.
44. Pandey A. K., **Durgapal A. K.**, Bhatt B. C., Mohan V., Mahara H. S., 1996, IAUS, 174, 339.

## (VII) Seminar / symposium attended

### International –

1. International Conference on Emerging Trends in Engineering, Management & Sciences held at Graphic Era campus Bhimtal during April 27 – 28, 2019 and presented a paper.

2. 3<sup>rd</sup> IEEE International Conference on “Internet of Things: Smart Innovation and Usages (IOT-SIU)-2018 organized by Birla Institute of Applied Sciences, Bhimtal during February 23 – 24, 2018 and presented a paper.
3. 1<sup>st</sup> Belgo-Indian Network for Astronomy and Astrophysics (BINA) workshop on “Instrumentation and Science with 3.6-m DOT and 4.0-m ILMT” held at ARIES Nainital during November 15 – 18, 2016 and presented a poster.
4. 19<sup>th</sup> International conference of international academy of physical sciences (CONLAPS-XIX) & symposium on “Fixed point theory and dynamical systems” held at D. S. B. Campus Nainital during Oct. 17 – 19, 2016 and presented a paper.
5. “International conference on soft computing techniques for engineering & technology” held at Graphic Era Hill University, Bhimtal Campus during August 7 – 8, 2014 and presented a paper.
6. Symposium on “Astrophysics Research and science education” held at Vatican Observatory Castel Gandolfo, Italy during June, 14 – 21, 1998 and presented a paper.
7. Summer School on “Theoretical and Observational cosmology” held at Vatican Observatory Castel Gandolfo, Italy during June, 1995 and delivered a talk.

#### National –

1. Workshop on Role of meter class telescope in modern astronomy held at ARIES Nainital, during October 17-19, 2022.
2. Second symposium on Advances in Physics from Small to Large Scales (APSLs-2019) held at D. S. B. Campus, Kumaun University, Nainital during March 14 – 16, 2019.
3. First symposium on Advances in Physics from Small to Large Scales (APSLs-2018) held at D. S. B. Campus, Kumaun University, Nainital during March 27 – 28, 2018 and presented a paper.
4. 8<sup>th</sup> Conference of the Indian Science Congress Association (Haridwar chapter) organized by Department of Mathematics, Kumaun University, Nainital during October 14 – 15, 2017 and presented a paper.
5. 32<sup>nd</sup> Meeting of Astronomical society of India held at IISER Mohali during March 20 – 22, 2014 and presented a poster.
6. National seminar on recent development in physics and prosperity in solar physics – space science (NCR TIRASS-2014) held at M. B. Govt. P. G. College, Haldwani during December 27 – 28, 2014 and presented a paper.

7. National Conference on recent trends in interdisciplinary research and Astrophysics space science (NCRTIRASS-2012) held at M. B. Govt. P. G. College during November 3 – 4, 2012 and presented a poster.
8. National Symposium on “Recent Trends in Fluorescence Spectroscopy and its Applications” held at Kumaun University, Nainital during December 1 – 3, 2006.
9. Symposium on “Physics from atom to Galaxy” held at H. N. B. Garhwal University, Shrinagar, Garhwal during October 9 – 11, 2006.
10. Workshop on “Observations by small Telescope” held at Inter-University Center for Astronomy and Astrophysics (IUCAA) from August 28 – September 01, 2005.
11. International Solar Workshop held at ARIES, Nainital during April 5 – 7, 2005
12. 20<sup>th</sup> ASI Meeting held at Gorakhpur University, Gorakhpur during November 15 – 18, 2000 and presented the Thesis work.
13. UPSO – IUCAA Workshop on “Observational programme with 2m class optical telescope” held at the State Observatory (now ARIES), Nainital, during October 25 – 29, 1999 and delivered a talk.
14. 6<sup>th</sup> Young Astronomer meet (YAM) held at State Observatory (now ARIES) Nainital during June 1 – 3, 1999 and worked as chairman of Local Organising Committee.
15. UPSO Silver Jubilee Workshop on “Astronomy with moderate size optical telescope” held at State Observatory (now ARIES) Nainital, during April 7 – 9, 1997.
16. 4<sup>th</sup> Young Astronomer Meet held at Indian Institute of Astrophysics, Bangalore in September 1996 and presented a paper.
17. 17<sup>th</sup> ASI Meeting at Guwahati University, Guwahati during January 17 – 20, 1996 and presented a poster.

## (VIII) Orientation course / Refresher course attended –

1. Short Term Course organized by University Grants Commission, Human Resource Development Centre, Kumaun University, Nainital on “National Integration” during June 12 – 18, 2015.
2. Refresher course organized by UGC – ASC, Kumaun University, Nainital on “Physics and Astrophysics” during December 10 – 30, 2012.

3. Refresher course organized by UGC – ASC, Kumaun University, Nainital (at SSJ campus, Almora) on “IT Application (M. D.) (Physics)” during November 23 – December 13, 2011.
4. Refresher course organized by UGC – ASC, Kumaun University, Nainital (at SSJ campus, Almora) on “IT Application (M. D.) (Physics)” during July 19 – August 08, 2010.
5. Orientation course organized by UGC – ASC, Kumaun University, Nainital during February 12 – March 06, 2007.