

Curriculum vitae

Personal Information

Name: **Dr. K. Chenna Reddy**
Father's Name: K. Narayan Reddy
Educations: M. Sc., Ph. D.,

Correspondence Address:

Office: Assistant Professor
Dept of Astronomy
University College of Science, Osmania University,
Hyderabad - 500 007

Publications

1. Latitudinal variation in vertical distribution of meteor decay time and its relation with mesospheric Ozone in the altitude range of 80-90 km, Prem Kumar Battula, Phanikumar D V , **Chenna Reddy K** , Kishore Kumar K and Yellaiah G, Indian Journal of Radio & Space Physics, Vol 50, September 2021, pp. 115-124.
2. Seasonal variations in vertical distribution of meteor decay time as observed from meteor radars at 8.5N and 80N, B. Premkumar, **K. Chenna Reddy**, G. Yellaiah, K. Kishore Kumar, Advances in Space Research, Vol 63, Issue 5, 1 March 2019, pp. 1661-1669, <https://doi.org/10.1016/j.asr.2018.11.019>.
3. Latitudinal difference in meteor trail ionization heights and identification of meteor showers, **K. Chenna Reddy**, B. Premkumar and G. Yellaiah, Astrophys Space Sci (2019) 364:203, <https://doi.org/10.1007/s10509-019-3687-9>.
4. Meteor head and terminal flare echoes observed with the Gadanki MST T radar, **K. Chenna Reddy** and B. Premkumar, JASTP, Vol 192, 1 October 2019, 104952, <https://doi.org/10.1016/j.jastp.2018.11.006>.
5. Variation of the meteor count rate and echo height during solar cycle 23 and 24, B. Premkumar, **K. Chenna Reddy** and G. Yellaiah, Proceedings IAU Symposium No. 340, 2018, doi:10.1017/S1743921318001722.
6. Fragmentation of specular overdense meteor trail echoes observed with Gadanki MST radar, K. Chenna Reddy and G. Yellaiah, Astrophys Space Sci (2016) 361:83, DOI 10.1007/s10509-016-2670-y.
7. The 2011 Draconids Meteor Light Curves and Meteoroid Fragmentation, **K. Chenna Reddy** and G. Yellaiah, Earth Moon Planets (2015) 114:159–169, DOI 10.1007/s11038-014-9457-3.
8. Study of meteor characteristics over Gadanki using VHF radar observations, A. Guharay, **K. Chenna Reddy**, D. Chakrabarty and G. Yellaiah, Current Science, Vol. 104, No. 10, 25 MAY 2013.
9. Geminid Meteor shower activity 2003–2005 as observed by Gadanki radar, **K Chenna Reddy**, D Venkata Phani Kumar and G Yellaiah, Planetary and Space Science 56 (2008) 1014–1022, doi:10.1016/j.pss.2008.01.005.
10. Radar observations of Leonid meteor shower 2003, Phanikumar, D.V., **Chenna Reddy, K.**, Yellaiah, G., Astrophys. Space Sci., (2006) 306, 235–239.
11. Visual observations of Geminid meteor shower 2004, **Chenna Reddy, K.**, Phanikumar, D.V., Yellaiah, G., Bull. Astron. Soc. India (2006) 34, 225–233.

12. MST radar observations of Perseid meteor shower 2004, Phanikumar, D.V., **Chenna Reddy, K.**, and Yellaiah, G. Bull. Astr. Soc. India (2006) 34, 281–289.

RESEARCH PROJECTS

1. Meteor observation with the Gadanki MST radar and determination of important meteor and atmospheric parameters (UGC-BSR Research Start-Up Grant) (18/09/2014 - 18/09/2016)
2. Twilight Photometric observations of meteoric dust in the middle atmosphere (DST-PURSE, OU, 2017 - 2020)
3. Ionospheric aspects of meteors by using MST Radar (DST-SERB, 2013-2016) (Sanctioned to Prof G Yellaiah)

SEMINARS / WORKSHOPS

1. 33rd meeting of Astronomical Society of India (ASI-2015), NCRA, Pune, 18-20 Feb, 2015.
2. 81st Annual meeting of the Academy of Sciences, IISER, Pune, 5-8 Nov, 2015
3. International conference on Celestial mechanics and Dynamical Astronomy, MANUU, Hyderabad, 15-17 Dec 2015
4. 103rd Indian Science Congress, University of Mysore, Mysore, 3-7 Jan 2016
5. National Space Science Symposium (NSSS-2016), VSSC-SPL, 8-12 Feb, 2016
6. 34th meeting of Astronomical Society of India (ASI-2016), Univ. of Kashmir, Jammu & Kashmir, 10-13 May, 2016
7. 35th meeting of Astronomical Society of India (ASI-2017), B. M. Birla Science Centre, Jaipur, 6-10 March, 2017
8. International Conference on Space Science and Communication (IconSpace2017), Kaula Lumpur, Malaysia, 3-5 May 2017
9. National Space Science Symposium (NSSS-2022), IISER Kolkata, 31 Jan-4 Feb, 2022

ADMINISTRATIVE EXPERIENCE

1. I/c. Head, Department of Astronomy (Nov, 2014 - May, 2015)
Place of Work: Department of Astronomy, Osmania University, Hyderabad
2. Chairman, Board of Studies in Astronomy (Oct, 2014 - Till Date)
Place of Work: Department of Astronomy, Osmania University, Hyderabad
3. General Warden, D-Hostel (Sept 2013 - Sept 2015)
Mess Warden, B-Hostel (Oct 2015 - Nov 2017)
Place of Work: Hostels (D-Hostel / B-Hostel), UCS, Osmania University
4. Vice-Principal (Hostels), UCS, OU (December 2021 - Till Date)
Place of Work: Principal Office, UCS, Osmania University

Memberships

1. Life Member - Astronomical Society of India (ASI)
2. Life Member - Indian Science Congress Association (ISCA)