Kumaun University, Nainital
Curriculum Vitae

Name : Dr. Ramesh Chandra

Designation : Professor

Department : Physics

Contact Information

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Scopus ID : NA

Vidwan ID : NA

Educational Qualification

Degree	University	Subjects	Year
B.Sc.	Kumaun University, Nainital	Physics, Mathematics, Chemistry	1993
M.Sc.	Kumaun University, Nainital	Physics	1995
Ph.D.	Kumaun University, Nainital/ARIES, Nainital	Physics (Solar Physics)	2006

Work Experience (add row if required)

Position	Department	University/Organization	Year
Professor	Physics	Kumaun University, Nainital	2016-continue
Associate Professor	Physics	Kumaun University, Nainital	2010-2016
Post Doctoral Fellow	Paris Observatory Meudon, France	Paris Observatory Meudon, France	2008-2010
Scientific Officer	Uttarakand Science and Technology	State Observatory, Nainital	1999-2007

Administrative Responsibilities (add row if required) : NA

Position	Nature of responsibility	University/Organization	Year

Research Interests

(List your research interests and areas of expertise in 1-3 lines)

I am mainly working in solar activity like filament eruptions, Flares, EUV waves and coronal mass ejections (CMEs). For my study, I am experienced in analysing and interpreting different

space borne and ground based observational data and in computing different secondary physical parameters based on observations.

Publications (start from recent publications)

a) Research Papers **(add row if required):** I have published 85 research paper in peer-reviewed journals, The details of main publications during last five years (2020-2024) are as follows:

Authors name	**Title of the paper**	**Journal, vol, page no**	**Year**
Lawrance, B., Devi, P., **Chandra, R.,** et al.	A comprehensive catalogue of metric type II bursts observed by RSTN during solar cycle 24	Solar Physics (in press)	2024
Joshi, R., Luna, M., Schmieder, B….., **Chandra, R.**	Interaction of solar jets with filaments: Triggering of large-amplitude filament oscillations	Astronomy&Astrophysics, 672, A15	2023
Devi, P., **Chandra, R.,** Awasthi, et al.	Extreme-ultraviolet wave and accompanying loop oscillations	Solar Physics, 297, 153.	2022
Joshi, R., Mandrini, C. H., **Chandra, R.,** et al.	Analysis of the evolution of a multi-ribbon flare and failed filament eruption	Solar Physics, 297, 81	2022
Chandra, R., Chen, P.F., et al.	Dynamics and Kinematics of the EUV Wave event on May 06 2019	Galaxies, 10, 58.	2022
Devi, P., **Chandra, R.,** Joshi, R.,et al.	Prominence Oscillations activated by an EUV wave	Adv. Space Res., 70,1529	2022
Koleva, K., Devi, P., **Chandra, R.,**et al.	Sympathetic Quiet and Active Region Filament Eruptions	Solar Physics, 297, 44.	2022
Schmieder, B, Joshi, R., **Chandra, R.**	Solar jets observed with the Interface Region Imaging Spectrograph (IRIS)	Adv. Space Res., 70,1580	2022
Chandra, R., Demoulin, P., Devi, P., et al.	Filament Eruption Driving EUV Loop Contraction then Expansion above a Stable Filament	Astrophysical Journal, 922, 227	2021
Chandra, R., Chen, P. F., Devi, P., et al.	Fine structures of an EUV wave event from Multi-viewpoint observations	Astrophysical Journal, 919, 9	2021
Kharayat, H., Joshi, B., **Chandra, R.**	Radio-loud and radio-quiet CMEs: solar cycle dependency, influence on cosmic ray intensity, and geo-effectiveness	Astrophysics and Space Sci, 366, 24	2021

Devi, P., Singh, J., **Chandra, R.,** et al.	Variation of Chromospheric Features as a Function of Solar Cycles 15 –23: Implications for Meridional Flow	Solar Phys., 296, 49	2021
Demoulin, P., **Chandra, R.** , Joshi, R., et al.	Observations of a prominence eruption and loop contraction	Astronomy&Astrophysics , 647, A85	2021
Joshi, R., Schmieder, B., Tei,….**Chandra, R.,** et al.	Multi thermal atmosphere of a mini solar flare during magnetic reconnection observed with IRIS	Astronomy&Astrophysics , 645, A80	2021
Monga, A., Sharma, R., Liu,…. **Chandra, R**., et al.	On the partial eruption of a bifurcated solar filament structure	MNRAS, 500, 684	2021
Joshi, Reetika , Wang, Yuming , **Chandra , R., et al.**	Cause and Kinematics of a Jet-Like CME	Astrophysical Journal, 901(2), 94	2020
Mitra, P. K., Joshi, B.,Veronig…..**Chandra, R.** et al.	Eruptive-impulsive homologous M-class flares associated with double decker flux rope configuration in mini-sigmoid of NOAA 12673	Astrophysical Journal, 900, 23	2020
Devi, P., Joshi, B., **Chandra, R.,…** et al.	Development of a Confined Circular-cum-parallel Ribbon Flare and associated Pre-flare Activity	Solar Physics, 295, 75	2020
Joshi, R., **Chandra, R**., Schmieder, B., et al.	Case–study of Multi–temperature Coronal Jets for Emerging Flux MHD Models	Astronomy&Astrophysics, 639, A22	2020

b) Patents (start from recent publications) **(add row if required): NIL**

Authors name	Title of the patent	Patent no (Granted or filed)	Year

c) Books (start from recent publications) **(add row if required)**

Authors name	Title of the book	Publisher	ISBN	Year
Ivan Zhelyazkov and **Ramesh Chandra**	Kelvin Helmholtz Instability in Solar Atmospheric Jets	*World Scientific*	*World Scientific 978-981-12-2374-7*	2020

d) Book chapters (start from recent publications) **(add row if required): NIL**

Authors name	Title of the book	Publisher	ISBN	Year

e) Conference Publications/Proceedings (start from recent publications) **(add row if required):** During last five years.

Authors name	Title of the paper	Conference name	Year
Brigitte, B., Reetika, R., **Chandra, R.,**et al.	Empirical atmosphere model in a mini flare during magnetic reconnection	HVAR proceedings, Croatia	2021
K., Koleva, Devi, P.,…**Chandra, R.**	Properties of Filament Eruption and Associated Flare Ribbons on 2021 May 9	Solar Influences on the Magnetosphere, Ionosphere and Atmosphere", held in Primorsko, Bulgaria	2021

Projects (add row if required)

Title of the project	**Funding agency**	**Amount (Rs)**	**Year**
EUV Waves: Origin and space weather impact	SERB/DST	Rs. 25.87 Lakhs	2024-Continue
Solar Filament eruptions and space weather consequences	SERB/DST	Rs. 21.84 Lakhs	2017-2020
Study of dynamical processes in the Solar atmosphere	RESPOND/ISRO	Rs. 12.60 Lakhs	2013-2016

Teaching details (add row if required)

Name of the course/paper	**Department**	**University**	**Year**
Optics (UG)	Physics	Kumaun University, Nainital	2010-Continue
Quantum Mechanics (PG)	Physics	Kumaun University, Nainital	2010-Continue
Astrophysics (PG)	Physics	Kumaun University, Nainital	2010-Continue
Spectroscopy (PG)	Physics	Kumaun University, Nainital	2017-2019
Labs (UG & PG)	Physics	Kumaun University, Nainital	2010-Continue

Professional Memberships (add row if required)

Organization	Position	Year
NASI, Allahabad	Member	2016
International Astronomical Union (IAU)	Member	2017
Royal Astronomical Society, UK	Member	2018
Indian Astronomical Society (ASI)	Member	2011
Plasma Society of India	Member	2022
Division of Plasma Physics, the Association of Asia Pacific Physical Societies (AAPPS-DPP)	Member	2024

Honours and Awards (add row if required):

Award	Awarding Organization	Year
Governor's award for best research	Rajbhavan, Uttarakhand	2016
IUCAA Associate	IUCAA Pune	2013-continue
Visiting Scientist, ARIES, Nainital	ARIES, Nainital	2020-2023

Conference Presentations (add row if required) : During last five years

Title of presentation	Conference name	Name of the institution	Year
Solar coronal mass ejections related to Extreme-Ultraviolet Wave and loop Oscillations	7th Asia Pacific Conference on Plasma Physics (AAPPS-DPP 2023), held at Port Messe, Nagoya, Japan, during November 12-17, 2023	Nagoya University, Japan	2023
Extreme-Ultraviolet Waves: Models and Observational Features	3rd International Conference on Plasma Theory and Simulations (PTS-2023) during 21-23 September 2023.	Jawaharlal Nehru University, Delhi	2023
Characteristics of solar EUV wave events	3rd BINA workshop, held at ARIES, Nainital, India during 22–24 March, 2023	ARIES, Nainital	2023
SDO, RHESSI, and Hα observations of Promenence eruptions	5th Asia Pacefic Solar Physics Conference, held at IUCAA, Pune, India during 03–07 February, 2020	IUCAA, Pune	2020
Mode Conversion in EUV waves	PSTEP-4 Symposium during 28–30 January 2020	ISEE, Nagoya, Japan	2020

Signature of the faculty member