

DURGESH TRIPATHI

Current Positions: | Scientist -F (Associate Professor)
Head, Max Planck Partner Group at IUCAA
PI, Solar Ultraviolet Imaging Telescope (SUIT) on board Aditya-L1
Adjunct Scientist at Indian Institute of Astrophysics, Bengaluru

Current Address: | Inter-University Centre for Astronomy and Astrophysics,
Post Bag 4, Ganeshkhind, Pune 411007, India

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BROAD AREA OF RESEARCH

Solar Physics | **Coupling & Dynamics of Solar Atmosphere and Space Weather**
Solar Eruptions and Associated Phenomena, Solar Terrestrial Relations, Chromospheric and Coronal Heating, UV & EUV Spectroscopy, Solar Magnetohydrodynamics, Solar Stellar Connection

Sun-Climate Relationship
Variation of Solar Ultraviolet Irradiance and relationship with various magnetic and non-magnetic features

EMPLOYMENT

2.1 Faculty Appointments

JUL 2014 - PRESENT | *Associate Professor (Scientist - F)*

APR 2011 - JUN 2014 | *Assistant Professor (Scientist - E)*
Inter-University Centre for Astronomy and Astrophysics (IUCAA),
Post Bag - 4, Ganeshkhind, Pune 411007, India
☎+91 20 25604 100

2.2 Post Doctoral Appointments

OCT 2009 - MAR 2011 | *Research Fellow*
Clare Hall College, University of Cambridge,
Herschel Road, Cambridge CB3 9AL, United Kingdom
☎+44 1223 332360

NOV 2008 - MAR 2011 | *Post Doctoral Research Associate*
Department of Applied Mathematics and Theoretical Physics (DAMTP)
Centre for Mathematical Sciences,
University of Cambridge, Wilberforce Road CB3 0WA, United Kingdom
☎+44 1223 765000

MAY-NOV 2008 | *Post Doctoral Research Associate*

Mullard Space Science Laboratory (University College London)
Holmbury St Mary, Dorking, Surrey RH5 6NT, United Kingdom
☎+44 1483 204 100

SEP 2005 - MAY 2008 | *Post Doctoral Research Associate*
Department of Applied Mathematics and Theoretical Physics (DAMTP)
Centre for Mathematical Sciences,
University of Cambridge, Wilberforce Road CB3 0WA, United Kingdom
☎+44 1223 765000

FEB 2005 - AUG 2005 | *Post Doctoral Fellow*
Max-Planck-Institute for Solar System Research
Max-Planck-Str 2, D-37191 Katlenburg-Lindau, Germany
☎+49 5556 979 0

2.3 PhD Studentship

FEB 2002 - FEB 2005 | *Ph.D. Student*
Max-Planck-Institute for Solar System Research
Max-Planck-Str 2, D-37191 Katlenburg-Lindau, Germany
☎+49 5556 979 0

VISITING POSITIONS

SEP 2011 - PRESENT | *Adjunt Scientist*
Indian Institute of Astrophysics,
II Block, Koramangala, Bangalore 560034, India
☎+91 80 2553 0672

OCT - DEC 2010 | *Visiting Professor*
Kwasan and Hida Observatories, Kyoto University,
Kitashirakawa-oiwake-cho, Sakyo-ku, Kyoto, 606-8502,
4th floor in the Build. of faculty of Science, Japan
☎+81 75 753 3893
(Host: Prof H. Isobe, Prof. Ichimoto)

OCT - NOV 2006 | *Visiting Scientist*
High Altitude Observatory, 3090 Center Green Drive,
Boulder, Colorado 80301, USA
☎+1 303 497 2188
(Host: Dr Sarah E. Gibson)

PH.D. STUDENTS

JUN 2014 - PRESENT	Ms Avyarthana Ghosh Thesis Title: Dynamics and Heating of Solar Active Regions
2013 - PRESENT	Mr Rohit Sharma Ph.D. student with Dr Divya Oberoi at National Centre for Radio Astrophysics, Pune
2008 - 2011	Dr Brendan O'Dwyer Worked with him towards his Ph.D. at University of Cambridge, UK
2005 - 2008	Dr Cristina Chifor Worked with her towards her Ph.D. at University of Cambridge, UK

PROJECT STUDENTS

JAN 2016 - PRESENT	Ms Namrata Roy MSc Student at Presidency University
OCT 2014 - PRESENT	Ms Aparna V. Project Student at IUCAA under DST Fast Track Scheme
OCT 2013 - DEC 2014	Ms Sherry Chhabra Current Position: PhD student at New Jersey Institute of Technology, USA
JAN 2013 - SEP 2014	Ms Sargam Mulay Project Student at IUCAA under DST Fast Track Scheme Current Position: PhD student at DAMTP, University of Cambridge

MENTORING OF POST DOCTORAL FELLOWS

NOV 2014 - PRESENT	Dr Pradeep Kayshap Post Doctoral Fellow at IUCAA under Max-Planck Partner Group
2013 - PRESENT	Dr Girjesh Gupta DST INSPIRE Faculty Fellow at IUCAA, Pune
JULY 2012 - JUNE 2014	Dr Srividya Subramanian Post Doctoral Fellow at IUCAA, Pune

TEACHING

IUCAA Graduate School: 2012 - 2013 – Electrodynamics and Radiative Processes
2011 - 2012 – Electrodynamics and Radiative Processes

MSc Pune University: 2015 - 2016 – Astrophysics I [Orbitis, Fluids, Radiation]

AWARDS, HONOURS AND IMPORTANT FELLOWSHIPS

- 2014 - 2017 + 2 years Appointed as Head of Max-Planck-Partner group of Max Planck Institute for Solar System Research at IUCAA on **Coupling and Dynamics of Solar Atmosphere**
- 2013 Group Achievement Award in Understanding the Genesis and Evolution of Coronal Mass Ejections, **Awarded by Romanian Academy of Science, Romania**
- 2012 - 2015 DST-SERB Government of India grant on "Physics of Jets in Solar Atmosphere" under "Fast Track Scheme for Young Scientists" programme
- 2010 JSPS Visiting Professorship at Kwasan and Hida Observatories Kyoto University, Japan
- 2009 - 2011 Non-Stipendiary Research Fellowship at Clare Hall College, University of Cambridge, UK
- 2006 Visiting Scientist fellowship, High Altitude Observatory, National Centre for Atmospheric Research, Boulder, USA
- 2006 - 2009 Associate Membership at St. Edmunds College, University of Cambridge, UK
- 2005 - 2011 PPARC (STFC) Post Doctoral Research fellowship, at DAMTP, University of Cambridge and MSSL, University College London, UK
- 2002 - 2005 International Max-Planck-Research School Fellowship at the Max-Planck-Institute for Solar System Research, Katlenburg-Lindau, Germany
- 2002 University Gold Medal, D.D.U. Gorakhpur University, Gorakhpur, India

RESEARCH GRANTS

- 2016 - 2019 "To study the dynamics of prominences and large scale eruptions such as CMEs", funded by ISRO/RESPOND, India
Co-Principal Investigator
- 2014 - 2017 (+2 yrs) Max-Planck Partner Group on Coupling and Dynamics of Solar Atmosphere jointly funded by Max-Planck Society Germany and Indo-German Science and Technology, Department of Science and Technology, India
- 2013 - Continuing "Solar Ultraviolet Imaging Telescope (SUIT) on board Aditya-L1 a project by Indian Space Research Organization (ISRO), India
Principal Investigator

2013 - 2015 "ClassACT - Indo-US centre for astronomical object and feature
Co-Principal Investigator characterisation and classification" funded by Indo-US Science
and Technology Forum

2012 - 2015 "Physics of Jets in Solar Atmosphere and their Roles in Large
Principal Investigator Scale Eruptions" funded by Department of Science and Technology, India

PROFESSIONAL SERVICES & SYNERGETIC ACTIVITIES

Jun 2013 - Present Principal Investigator (PI), Solar Ultraviolet Imaging Telescope (SUIT)
on board Aditya-L1 mission.

Nov 2012 - Present Science Team Member, Visible Emission Line Coronagraph (VELC)
on board Aditya-L1 mission.

2006 - Present Peer reviewer for multiple astrophysical and space science journals.

2006 - 2011 Designing and Planning of observations on space based telescopes on
board SoHO and Hinode.

ADMINISTRATIVE RESPONSIBILITIES

Jan 2016 - Present Head, Library Committee at IUCAA.

Jan 2016 - Present Member, Instrumentation Committee at IUCAA.

Nov 2014 - Present Member of Public Outreach Programmes Committee at IUCAA.

Oct 2012 - Present Member of Teaching Programme Committee at IUCAA.

Apr 2011 - Present Member of Academic Programme Committee at IUCAA.

May 2013 - Nov 2014 National Outreach Contact for IAU.

Aug 2013 - Nov 2014 Member of TMT's (Thirty Meter Telescope) Workforce, Education, and
Public Outreach (WEP) Advisory Group

Oct 2012 - Nov 2014 Head, Science Public Outreach Programmes at IUCAA.

2009 - 2011 Member of Governing Body, Clare Hall, Cambridge University, Cambridge.

ORGANISATIONS OF WORKSHOPS AND CONFERENCES

Jan 2016, 24-29 "Science for Space Weather" in Goa, India
member of LOC

Oct 2015, 26-29 "IRIS-5 Workshop" at IUCAA, Pune
Chair of SOC and LOC

- Nov 2014, 10-14
Chair of SOC and LOC "International Conference on Coupling and Dynamics of the Solar Atmosphere" at IUCAA, Pune
- Aug 2014, 2-14
Member SOC "COSPAR-2014", Moscow
Member SOC for three different sessions
- Nov 2011, 6-9
Member of LOC "International Symposium on Solar-Terrestrial Physics" @ IISER-Pune
- September 2011, 5-7,
Chair of SOC and LOC "National Workshop on Physics of Solar Transition Region and Corona" @ IUCAA, Pune
- Sep 2010, 13-15,
Co-Chair of SOC and LOC "International Conference on Solar Plasma Spectroscopy: Achievements and Future Challenges" @DAMTP, University of Cambridge, UK
- July 2007, 25-27,
Co-Chair of SOC and LOC "Eruptive Phenomena on the Sun" @DAMTP, University of Cambridge, UK

EDUCATION

- FEBRUARY 2005 | Dr. rer. Nat. (Doctor rerum naturalium) in ASTRONOMY & ASTROPHYSICS
Institution: Max-Planck-Institute for Solar System Research, Katlenburg-Lindau,
Degree awarded by: Georg-August-Universität Göttingen, Germany
Grade: Magna Cum Laude
Thesis: EUV and Coronagraphic Observations of Corona Mass Ejections
- JUNE 2001 | Master of Science (M. Sc.) Physics (Specialization in Astronomy and Astrophysics)
Institution: D.D.U. Gorakhpur University, Gorakhpur, India
University Gold Medalist
- JUNE 1998 | Bachelor of Science, Physics and Mathematics
Institution: St. Andrews College, D.D.U. Gorakhpur University, Gorakhpur, India

COMPUTATIONAL SKILLS

- Operating Systems: UNIX/LINUX, MCINTOSH, WINDOWS
- Programming Language: IDL (fluent), Modern Fortran & f77 (basic), C++ (basic)
- Applications: Latex, MS Office, html

MEMBERSHIP TO PROFESSIONAL SOCIETIES

International Astronomical Union
Astronomical Society of India

SELECTED INVITED LECTURES

34. "Heating and Dynamics of the Solar Active Region", International Conference on Dynamic Sun I, Varanasi, India, Feb 21-26, 2016
33. "The Solar Ultraviolet Imaging Telescope on board Aditya-L1 mission", Astronomical Society of India meeting, NCRA, India, February 17-20, 2015
32. "Heating of Solar Active Regions", Asia Pacific Regional IAU meeting, Daejeon, Korea, August 18-22, 2014
31. "Science Goals of the Proposed Indian Solar Space Mission", Asia Pacific Regional IAU meeting, Daejeon, Korea, August 18-22, 2014 **Plenary Lecture**
30. "Heating of Upper Solar Atmosphere", Indo-UK Scientific Seminar held at India Institute of Astrophysics, Bangaluru, January 2013.
29. "Heating of Solar Active Regions", International Symposium on Solar-Terrestrial Physics, November 6-9, 2012
28. "Flows and Waves in solar Atmosphere: An observational Overview", 39th COSPAR Scientific Assembly, 14-22 July 2012
27. "Heating of Solar Active Regions", Indian Institute for Science Education and Research, Pune, India, April 2012
26. "EUV spectroscopy of solar transition region and corona", Solar Radio Workshop, National Centre for Radio Astrophysics, Pune, India November 2011
25. "Heating of Solar Active Regions", Indian Institute of Astrophysics (IIA), Bangalore, July 21, 2011
24. "Heating of Active Region Cores" at the Workshop on Physics of the Solar Transition Region and Corona held at IUCAA Pune from September 5-7, 2011
23. "Plasma Diagnostics of Solar Active Region" at Max-Planck-Institute for Solar System Research, Katlenburg-Lindau, Germany, October 2011
22. "CME studies with Aditya" at the Meeting on Science with Planned and Up-coming Solar Facilities in the Country, held at IIA Bangalore from November 2-3, 2011
21. "EUV Spectroscopy of Solar Transition Region and Corona" at Solar Radio Workshop held at NCRA-TIFR, Pune, 23-25 November 2011 (Invited)
20. "Large Amplitude Oscillation in Prominences", at BUKS 2011, held in Mallorca from 27-29 June 2011 (Invited Review)
19. "Solar Active Region Loops: Hinode/EIS Observations", Hinode-2: Beyond discovery towards understanding, Sep 29 - Oct 3, 2008, Boulder, Colorado, USA
18. "On Large Amplitude Oscillation in Prominences", MHD waves and Oscillations in Solar Atmosphere, Aug. 2008, ISSI Bern, Switzerland
17. "Active Region Diagnostics using Hinode/EIS", Royal Astronomical Society, 9th November, 2007, London, UK
16. "Pre-flare X-ray Brightening as a precursor to prominence and CME eruptions", SOHO20 - Transient Events on the Sun and in the Heliosphere, 27-31 August, Ghent, Belgium
15. "Density Structure of Active Regions from Hinode/EIS", Announcing First Results from Hinode, 20- 24th Aug. 2007, Trinity College Dublin, Dublin, Ireland

14. "Flux emergence and filament eruptions", Flux emergence workshop, 12-15 June 2007, University of St Andrews, UK
13. "On Partial Eruption of Prominences", June 2007, Colloquium, University of Tokyo, Japan
12. "Dynamics of Erupting Prominences and Associated Coronal Mass Ejections", May 2007, Colloquium, University of Sheffield, UK
11. "Partial Eruption of Filaments: Flux-rope Bifurcation During CMEs?", Feb 2007, Colloquium, Imperial College, London, UK
10. "Observation of Bright Coronal Downflows: Evidence of a Bifurcating Flux-rope", November 2006, High Altitude Observatory, Boulder, Colorado, USA.
9. "Coronal Mass Ejections: SoHO Observations", May 2006, Inter-University Centre for Astronomy and Astrophysics, Pune, India
8. "Observations of Coronal Downflows Following CME Eruptions", February, 2006, Department of Applied Mathematics and Theoretical Physics, University of Cambridge, UK
7. "Coronal Mass Ejections: SoHO/LASCO and EIT Observations", January 2006, Mullard Space Science Laboratory, University College London, UK
6. "Coronal Mass Ejections: SoHO Observations", November 2005, Kwasan Observatory, University of Kyoto, Japan
5. "EUV and Coronagraphic Observations of Coronal Mass Ejections", April 2005, International Solar Workshop, Aryabhata Research Institute for Observational Sciences, Nainital, India.
4. "EUV and Coronagraphic Observations of Coronal Mass Ejections", March 2005, Inter-university Centre for Astronomy and Astrophysics (IUCAA reference centre, University of Gorakhpur, India.
3. "Source Regions of Coronal Mass Ejections", January 2004, University of Gorakhpur, India.
2. "SOHO/EUV Post Eruptive Arcades as Signature of Coronal Mass Ejection Source Regions", January 2003, Udaipur Solar Observatory, India.
1. "SOHO/EUV Post Eruptive Arcades as Signature of Coronal Mass Ejection Source Regions", December 2002, University of Gorakhpur, India.

PUBLICATIONS IN REFEREED JOURNALS

[TOTAL CITATIONS: 1727, H-INDEX: 26 AS PER GOOGLE SCHOLAR RECORDS ON SEPTEMBER 03, 2016]

60. Subramanian, S., Kashyap, Vinay, **Durgesh Tripathi**, Madjarska, Maria and Doyle, J. G., **2016**, Energetics of Hi-C EUV Brighetenings, A&A, Submitted
59. Sharma, A., Gupta, G. R., **Durgesh Tripathi**, and Vinay Kashyap, Direct Evidence of P-mode Driven Waves and Oscillations in Sunspots, ApJ, submitted
58. Kayshap, P., Durgesh Tripathi, Solanki, S. K., **2016**, Multi-thermal Structure of Jets, ApJ Letters, ApJ Letter, submitted
57. Ghosh, A., Durgesh Tripathi, G. R. Gupta, Polito, V., H. E. Mason and Sami Solanki, **2016**, Fan loops observed by IRIS, EIS and AIA, ApJ, submitted

2016

56. Sharma, R., Durgesh Tripathi, Isobe, H. and Ghosh A., **2016**, On the Bright Loop Top Emission in Post Eruption Arcades, ApJ, v. 823, pp.47
55. Mulay, S., **Durgesh Tripathi**, Mason, H. E. and Del Zanna, G., **2016**, "Statistical Study of Jets Emanating from the Periphery of Active Regions", A&A, v. 589, pp. 79
54. Aparna, V. and **Durgesh Tripathi**, **2016**, "A Hot Flux Rope Observed by SDO/AIA", ApJ, v. 819, pp. 71
53. Klimchuk, J. A., Patsourakos, S. and **Durgesh Tripathi**, **2015**, "Intensity Conserving Spectral Fitting", Solar Physics, v.291, pp.55

2015

52. Gupta, G. R., **Durgesh Tripathi**, **2015**, "IRIS and SDO Observations of Recurrent Explosive Events", ApJ, v. 809, pp. 82
51. Gupta, G. R., **Durgesh Tripathi**, Mason, H.E., **2015**, "Spectroscopic Observations of a Coronal Loop: Basic Physical Plasma Parameters Along the Full Loop Length", ApJ, v. 800, pp.140
50. Shetye, J., **Durgesh Tripathi** and Dikpati, Mausumi, **2015**, "Observations and Modelling of North-South Asymmetry using a Flux Transport Dynamo", ApJ, v. 799, pp. 220
49. Del Zanna, Giulio, **Durgesh Tripathi**, Mason, Helen; Subramanian, Srividya; O'Dwyer, Brendan, **2015**, "The Evolution of the EM Distribution in the Core of an Active Region", A&A, v. 573, pp. 104
48. Chandra, Ramesh, Gupta, G. R., Mulay, Sargam, **Durgesh Tripathi**, **2015**, "Sunspot Waves and Triggering of Homologous Active Region Jets", MNRAS, v. 446, pp. 3741

2014

47. Subramanian, Srividya, **Durgesh Tripathi**, Klimchuk, James A., Mason, Helen E., **2014**, "Emission Measure Distribution for Diffuse Regions in Solar Active Regions", ApJ, v. 795, pp. 76
46. Mulay, Sargam, Subramanian, Srividya, **Durgesh Tripathi**, Isobe, Hiroaki; Glesener, Lindsay, **2014**, "Initiation of Coronal Mass Ejection Event Observed on 2010 Novem-

ber 3: Multi-wavelength Perspective”, ApJ, v. 794, pp. 78

2013

45. **Durgesh Tripathi**, K. K. Reeves, S. E. Gibson, N. C. Joshi, and A. K. Srivastava, **2013**, ”SDO/AIA Observations of a Partially Erupting Prominence”, ApJ, v. 778, pp. 142
44. **Durgesh Tripathi** and J. A. Klimchuk, **2013**, ”Asymmetries in Coronal Spectral lines and Emission Measure Distribution”, ApJ, v. 779, pp. 1
43. Kayshap, P., A. K. Srivastava, K. Murawski, **Durgesh Tripathi**, **2013**, ”Macrospicule and Jet Origin by Kinked Small-scale Flux-Tube in Polar Corona”, ApJ Letters, v. 770, pp. 3
42. Winebarger, A., **Durgesh Tripathi**, H. E. Mason, G. Del Zanna, **2013**, ”Doppler Shift in Active Region Moss using SOHO/SUMER”, ApJ, v. 767, pp. 107
41. Srivastava, A. K., R. Erdelyi, **Durgesh Tripathi**, N. C. Joshi, P. Kayshap, **2013**, ”Observations of Sausage-Pinch Instability in Solar Corona by SDO/AIA”, ApJ Letters, v.765, L42

2012

40. Dadashi, N., L. Teriaca, **Durgesh Tripathi**, S. K. Solanki, and T. Weigelmann, **2012**, ”Doppler shift of hot coronal lines in a moss area of an active region”, A&A, v. 548, A115,
39. Hillier, A., H. Hillier, **Durgesh Tripathi**, **2012**, ”Determination of Prominence Plasma Beta from the Dynamics of Rising Plumes”, ApJ, v. 761, pp. 106
38. Kucera, T. A., S. E. Gibson, D. J. Schmit, E. Landi, **Durgesh Tripathi**, **2012**, ”Temperature and EUV Intensity in a Coronal Prominence Cavity and Streamer”, ApJ, v.757, pp.73
37. **Tripathi, Durgesh**, H. E. Mason, G. Del Zanna and S. J. Bradshaw, **2012**, ”Observations of Plasma Upflow in a Warm Loop with Hinode/EIS”, ApJ Letters, v.754, pp.4
36. **Tripathi, Durgesh**, H. E. Mason, J. A. Klimchuk, **2012**, ”Active Region Moss: Doppler Shifts from Hinode/EIS Observations”, ApJ, v.753, pp.37

2011

35. **Tripathi, Durgesh**, J. A. Klimchuk, H. E. Mason, **2011**, ”Emission Measure Distribution and Heating of Two Active Region Cores”, ApJ, v.740, pp.111
34. Bemporad, A., M. Mierla, **Durgesh Tripathi**, **2011**, ”Rotation of an Erupting Filament Observed by STEREO EUVI and COR1 Instruments”, A&A, v. 531, pp. 147
33. O’Dwyer, B., G. Del Zanna, H. E. Mason, A. C. Sterling, **Durgesh Tripathi**, P. R. Young, **2011**, ”Hinode/EIS observation of a limb active region”, A&A, v. 525, pp.137

2010

32. **Tripathi, Durgesh**, H. E. Mason, J. A. Klimchuk, **2010**, ”Evidence of Impulsive Heating in Active Region Core Loops”, ApJ, v.723, pp.713
31. O’Dwyer, B., G. Del Zanna, H. E. Mason, M. A. Weber, **Durgesh Tripathi**, **2010**, ”SDO/AIA Response to Coronal Hole, Quiet Sun, Active Region, and Flare Plasma”, A&A, v. 521, pp. 21

30. Gibson, S. E.,...**Durgesh Tripathi**,..., et al., **2010**, "Three-dimensional Morphology of a Coronal Prominence Cavity", *ApJ*, v. 724, pp. 1133
29. **Tripathi, Durgesh**, H. E. Mason, G. Del Zanna, P. R. Young, **2010**, "Active Region Moss: basic physical parameters and their temporal variation", *A&A*, v. 518, pp. 42
28. Yurchyshyn, V. and **Durgesh Tripathi**, **2010**, "Relationship between Earth Directed Solar Eruptions and Magnetic Clouds at 1AU: A brief Review", *Adv. in Geosciences*, v. 21, pp. 51

2009

27. **Tripathi, Durgesh**, R. Jain, H. Isobe, **2009**, "Large amplitude oscillations in solar prominences", *Space Science Reviews*, v.149, pp. 283
26. Yurchyshyn, V., A. Abramenko, **Durgesh Tripathi**, **2009**, "Rotation of white-light CME structures as inferred from LASCO coronagraph", *ApJ*, v. 705, pp. 426
25. Schmit, D. J., S. E. Gibson, S. Tomczyk, K. K. Reeves, A. C. Sterling, D. H. Brooks, D. R. Williams, **Durgesh Tripathi**, **2009**, "Large-scale flows in prominence cavities", *ApJ Letters*, v. 700, pp. L96-L98
24. **Tripathi, Durgesh**, B. Kliem, H. E. Mason, P. R. Young, L. M. Green, **2009**, "Temperature tomography of a coronal sigmoid supporting the gradual formation of a flux rope", *ApJ Letters*, v. 698, pp. L27-L32
23. **Tripathi, Durgesh**, S. E. Gibson, J. Qiu, L. Fletcher, R. Liu, H. Gilbert, H. E. Mason, **2009**, "Partially-erupting prominences: a comparison between observations and model-predicted observables", *A&A*, v.498, pp. 295-305
22. **Tripathi, Durgesh**, H. E. Mason, B. N. Dwivedi, G. Del. Zanna, P. R. Young, **2009**, "Active region loops: Hinode/EIS observations", *ApJ*, v. 694, pp. 1256-1265

2008

21. Janardhan, P., **Durgesh Tripathi**, H. E. Mason, **2008**, "The solar wind disappearance event of 11 May 1999: source region evolution", *A&A*, v. 488, pp.L1-L4
20. Chifor, C., P. R. Young, H. Isobe, H. E. Mason, **Durgesh Tripathi**, H. Hara, T. Yokoyama, **2008**, "An active region jet observed with Hinode", *A&A Letters*, v. 481, pp.L57-L60
19. **Tripathi, Durgesh**, H. E. Mason, P. R. Young, G. Del Zanna, **2008**, "Density structure of an active region and associated moss using Hinode/EIS", *A&A Letters*, v. 481, pp.L53-L56
18. Gilbert, Holly R., A. G. Daou, D. Young, **Durgesh Tripathi**, D. Alexander, **2008**, "The Filament-Moreton Wave Interaction of 2006 December 6", *ApJ*, v. 685, pp. 629-645
17. Pintér, Balázs, R. Jain, **Durgesh Tripathi**, H. Isobe, **2008**, "Prominence Seismology: Wavelet Analysis of Filament Oscillations", *ApJ*, v. 680, pp. 1560-1568

2007

16. Isobe, H., **Durgesh Tripathi**, A. Asai, R. Jain, **2007**, "Large-Amplitude Oscillation of an Erupting Filament as Seen in EUV, H alpha, and Microwave Observations", *Solar Physics*, v. 246, pp.89-99

15. **Tripathi, Durgesh**, N. E. Raouafi, **2007**, "On the relationship between coronal waves associated with a CME on 5 March 2000", *A&A*, v. 473, pp.951-957
14. Chifor, C., **Tripathi, Durgesh**, H. E. Mason, B. R. Dennis, **2007**, "X-ray precursors to flares and filament eruptions", *A&A*, v. 472, pp. 967-979
13. **Tripathi, Durgesh**, S. K. Solanki, H. E. Mason, D. F. Webb, **2007**, "A bright coronal downflow seen in multi-wavelength observations: evidence of a bifurcating flux-rope?", *A&A*, v. 472, pp.633-642
12. Isobe, H., **Durgesh Tripathi**, V. Archontis, **2007**, "Ellerman Bombs and Jets Associated with Resistive Flux Emergence", *ApJ Letters*, v. 657, pp. L53-L56.

2006

11. Cremades, H.; V. Bothmer, **Durgesh Tripathi**, **2006**, "Properties of structured coronal mass ejections in solar cycle 23", *Adv. Space Research*, v. 38, pp. 461-465
10. Pick, M. ...**Durgesh Tripathi**... et al., **2006**, "Multi-Wavelength Observations of CMEs and Associated Phenomena", *Space Science Reviews*, v. 123, pp. 341-382
9. Gopalswamy, N. ...**Durgesh Tripathi**... et al., **2006**, "The Pre-CME Sun", *Space Science Reviews*, v.123, pp. 309-339
8. Schwenn, R. ...**Durgesh Tripathi** et al...., **2006**, "Coronal Observations of CMEs", *Space Science Reviews*, v. 123, pp. 127-176
7. **Tripathi, Durgesh**, G. Del Zanna, H.E. Mason, C. Chifor, **2006**, "EIT and TRACE responses to flare plasma", *A&A Letters*, v. 460, pp. L53-L56.
6. Chifor, C., H. E. Mason, **Durgesh Tripathi**, H. Isobe, A. Asai, **2006**, "The early phases of a solar prominence eruption and associated flare: a multi-wavelength analysis", *A&A*, v.458, pp. 965-973
5. **Tripathi, Durgesh** **2006**, "EUV and coronagraphic observations of coronal mass ejections", *Journal of Astrophysics and Astronomy*, v. 27, pp. 193-200
4. **Tripathi, Durgesh**, H. Isobe, H. E. Mason, **2006**, "On the Propagation of Brightening after Filament Eruptions, SoHO-EIT Observations", *A&A*, v.453, pp. 1111-1116
3. Isobe, H. and **Durgesh Tripathi** **2006**, "Large Amplitude Oscillation of a Polar Crown Filament in the Pre-eruption Phase", *A&A Letters*, v.449, L17-L20
2. **Tripathi, Durgesh**, S. K. Solanki, R. Schwenn, V. Bothmer, M. Mierla, G. Stenborg, **2006**, "Observation of a Bright Coronal Downflow by SOHO/EIT", *A&A*, v.449, 369-378, 2004

2004

1. **Tripathi, Durgesh**, V. Bothmer, H. Cremades, **2004**, "The basic characteristics of EUV post-eruptive arcades and their role as tracers of coronal mass ejection source regions", *A&A*, v.422, pp.337-349