

LISTA DE LUCRARI

Dr. Cristiana Dumitrache

TEZA DE DOCTORAT

C.Dumitrache:

Considerații asupra distribuției spațio-temporale a protuberanțelor solare, Institutul Astronomic al Academiei Romane, 1997

A. BOOKS, CATALOGUES

1. C.Dumitrache:
Filaments, coronal mass ejections and interplanetary disturbances, Ed. Matrixrom, 200 pp, ISBN:978-973-755-846-6, 2012
2. (Eds.)V.Mioc, N.A.Popescu, C.Dumitrache:
Recent Insights into our Universe– RoAJ 20 Suppl., Editura Acad.Romane, 204 pp, 2010
3. (Eds.)V.Mioc, C.Dumitrache, N.A.Popescu:
Exploring the Solar System and the Univers - AIP Conference Proceedings 1043, ISBN 978-0-7354-0571-4, 452 pp, 2008
4. C.Dumitrache, M.Mierla, A.S.Popescu, C.Oprea, D.Constantin, A.Oncica:
Soarele, 20 pp, ISBN 973-778-009-X, 2007
5. (Eds.) N.A.Popescu, V.Mioc, C.Dumitrache:
Heliosphere and Galaxy, Proceedings of Young Scientists' International School, Sinaia, 3-5 May 2007 - Romanian Astronomical Journal 17 Suppl., 158 pp, 2007
6. (Eds.) Cristiana Dumitrache, Vasile Mioc, Nedelia A. Popescu:
Flows, Boudaries, Interactions - AIP Conference Proceedings 934, ISBN 978-0-7354-0445-8, 236 pp, 2007
7. (Eds.) Cristiana Dumitrache, Nedelia A. Popescu, Marian Doru Suran, Vasile Mioc:
Fifty Years of Romanian Astrophysics - AIP Conference Proceedings 895, ISBN 978-0-7354-0400-7, 362 pp, 2007
8. C.Dumitrache, N.A.Popescu:
Fifty Years of Romanian Astrophysics, Ed. Cartea Universitara, 2 edn, ISBN (10)-973-731-397-6, 98 pp., 2006
9. C.Dumitrache:
Protuberantele solare, Ed. Cartea Universitara, ISBN 973-731-363-1, 161 pp, 2006
10. C.Dumitrache, N.A.Popescu:
Fifty Years of Romanian Astrophysics, Ed. Cartea Universitara, ISBN 973-731-236-8, 98 pp., 2005

11. A.Dimitriu, S.Dinulescu, C.Dumitrache (Eds.), M.Ghizaru, G.Maris, M.Orzaru, S.Pojoga: *Observations Solaires Rotations 1864-1890*, Ed.Academiei Romane, 1997
12. G.Maris, M.Orzaru (Eds.), A.Dimitriu, S.Dinulescu, S.Pojoga, C.Dumitrache, M.Ghizaru: *Observations Solaires Rotations 1837-1863*, Ed.Academiei Romane, 1996
13. G.Maris (Eds.), S.Dinulescu, A.Oncica, C.Dumitrache , M.Ghizaru, S.Pojoga, M.Orzaru: *Observations Solaires Rotations 1811-1836*, Ed.Academiei Romane, 1990
14. E.Tifrea, A.Dimitriu, S.Dinulescu, G.Maris (Eds.), A.Oncica, C.Dumitrache: *Observations Solaires Rotations 1757- 1770*, Ed.Academiei Romane, 29 pp, 1986
15. E.Tifrea (Eds.), A.Dimitriu, S.Dinulescu, G.Maris, A.Oncica, C.Dumitrache: *Observations Solaires Rotations 1744-1756*, Ed.Academiei Romane, 48 pp, 1985
16. E.Tifrea (Eds.), V.Dinulescu, A.Dimitriu, S. Dinulescu, G.Maris, A.Oncica, C.Dumitrache: *Observations Solaires Rotations 1730-1743*, Ed.Academiei Romane, 60 pp, 1984

B. ISI ARTICLES

1. M. Lazar, S. Poedts, R. Schlickeiser, C. Dumitrache:
Towards realistic parametrization of the kinetic anisotropy and the resulting instabilities in space plasmas. Electromagnetic electroncyclotron instability in the solar wind, Monthly Notices of the Royal Astronomical Society, 446, 3022-4033 (2015)
2. M. Lazar; J. Pomoell; S. Poedts; C. Dumitrache; N. A. Popescu:
Solar Wind Electron Strahls Associated with a High-latitude ICME: Ulysses Observations, Solar Physics, 289, 4239-4266, DOI: 10.1007/s11207-014-0558-y, 2014
3. C.Dumitrache, N.A.Popescu:
The Interplanetary Mass Ejections Behaviour in the Heliosphere, Romanian Journal of Physics, 58, 3-4, p.383-394, 2013
4. C.Dumitrache, N.A.Popescu, A.Oncica:
Tracking a Ulysses high-latitude ICME event back to its solar origins, Solar Physics, 272, 137-157, DOI: 10.1007/s11207-011-9811-9, 2011.
5. C.Dumitrache, D.R.Constantin, M.Mierla, C.Oprea:
A Complex Filament Evolution, Earth, Moon, and Planets, 104, 69-71, 2009.
6. Schmieder B., Mein N., Deng Y.Y., Dumitrache C., Malherbe J.M., Staiger J., DeLuca E.E.:
Magnetic changes observed in the formation of two filaments in a complex active region: TRACE and MSDP observations Sept 8-11 1998 MSDP /VTT, Solar Phys., 223, 119-141, 2004.
7. C.Dumitrache:
Numerical simulation of coronal streamer, Physica Scripta, 62, 510-518, 2000
8. C.Dumitrache:
On the Evolution of Filaments, Solar Physics 173, 281-304, 1997.
9. C.Dumitrache:
Rapid Processes in Solar Prominences: A Parallel between Cycles Nos. 20 and 21, Solar Physics, 145, 129-135, 1993.

C. OTHER ARTICLES AND PROCEEDINGS

1. Dumitrache, C., Popescu, N. A. (2017).
Automatic detection of the interplanetary coronal mass ejections and their associated geomagnetic storms in 2016.
Romanian Astronomical Journal, 27, 253-266.
2. Nedelia A. Popescu, Cristiana Dumitrache
Five days of solar wind evolution at 1 AU in May 2016
Romanian Astron. J. , Vol. 27, No. 2, p. 119-142, 2017
3. C. Dumitrache, L. Dumitru, O. Blagoi, C. Danescu, O. Stere, A. Sonka
THE AR12644 EVOLUTION OBSERVATIONS AND SIMULATIONS
Romanian Astron. J. , Vol. 27, No. 2, p. 141-159, 2017
4. C.Dumitrache:
Numerical Simulations of the Evolution of Solar Active Regions: the Complex AR12565 and AR12567,
Advances in Astrophysics, Vol. 2, No. 2, 103–116, 2017.
5. C.Dumitrache, L.Dumitru, A.B.Sonka, O.Stere , C.A.Danescu :
Bucharest Solar Station at sixty years, Rom. Astron. J., 26, 157-168, 2016
6. C.Dumitrache, N.A.Popescu:
A new approach to detect the boundaries of interplanetary events, Rom. Astron. J., 25, 77-103, 2015
7. Cristiana Dumitrache:
Numerical simulations of an active region starting with a real magnetogram as initial conditions, Rom. Astron. J., 25, 31-45, 2015
8. N.A.Popescu, C.Dumitrache:
Analysis of the Interplanetary Events Observed by Ulysses between 5 May 2002 and 11 May 2002, Rom. Astron. J., 25, 47-61, 2015.
9. C.Dumitrache, N.A.Popescu:
A new method to detect the ICMEs boundaries, arXiv preprint arXiv:1405.6002, & 11th European Space Weather Week, 2014
10. C.Dumitrache:
Coronal mass ejections, Rom. Astron. J., 23, 63-76, 2013
11. Doina Ionescu, C.Dumitrache:
The Sun Worship with the Romanians, Rom. Astron. J., 22, 155-166, 2012
12. C.Dumitrache, L.Dumitru, V.Banciu: *On twist estimation in active regions,* The 3rd Hinode Science Meeting, ASP 454, 345-348, 2012
13. C.Dumitrache, N.A.Popescu:
An CME-ICME couple analysis, The 3rd Hinode Science Meeting, ASP 454, 407-412, 2012
14. Vasile Mioc, Cristiana Dumitrache:
Coronal Mass Ejections: A Different Mathematical Approach, Rom. Astron. J., 21, 117-122, 2011

15. Dumitrache, C.; Mierla, M.: *Coronal EUV dimming - numerical simulations compared with SOHO observations*, EAS Publications Series, 44, 101-105 doi:10.1051/eas/1044017, 2011
16. C.Dumitrache:
A New Method to Predict the Solar Cycle, Rom. Astron. J., 21, 41-46, 2011
17. C.Dumitrache, L.Dumitru:
A Case Of Filament - Active Region Interaction, Publication of the Astronomical Observatory of Belgrade, 90, 125-130, 2010
18. C. Dumitrache, N.A.Popescu:
An Ulysses ICME event and its track back to the Sun, Rom. Astron. J. 20, 97-107, 2010
19. C.Dumitrache, D.Constantin:
Kink Instabilities Triggering a Filament Eruption, Rom. Astron. J., 20, 35-44, 2010
20. L.Dumitru, C.Dumitrache:
Active Region 9612 Evolution, Rom. Astron. J., 20, 27-33, 2010
21. V.Banciu, C.Dumitrache:
Analysis of the Active Region 11024, Rom. Astron. J., 20 Suppl, 9-14, 2010
22. C.Dumitrache, N.A.Popescu:
The 10 June 2001 Ulysses ICME Event and its Track Back to the Sun, IAGA Second Symp.Proc., Cairo Univ.Press., eds. L.Dame, A.Hady, 201-204, 2010
23. C.Dumitrache:
Polar flaring filament, in Magnetic Coupling between the Interior and the Atmosphere of the Sun, Astrophysics and Space Science Proceedings, eds. S. S. Hasan , R. Rutten, 459-463, 2010
24. C.Dumitrache:
The 15 July 2007 Ulysses ICME Event and its Track Back to the Sun, Rom. Astron. J., 20 Suppl, 23-29, 2010
25. C. Dumitrache, N.A.Popescu, A.Oncica:
A CME-ICME study using data from SOHO and Ulysses, in "Solar Wind 12", AIP Conference Series 1216, 424, 2010
26. N.A.Popescu, C. Dumitrache:
Study of Three ICMEs Events Registered by Ulysses in 2001, in "Solar Wind 12", AIP Conference Series 1216, 428, 2010
27. C.Dumitrache:
CMEs 'en rafales' - observations and simulations, in "Universal Heliophysical Processes", Cambridge University Press, IAU Symp 257, 251-256, 2009
28. C.Dumitrache, D.Dumitrache:
Arhitectural Evolutions of Astronomical Observatories, Rom. Astron. J., 19, 1, 81-97, Ed.Acad.Rom., 2009
29. I.Chifu, A.Oncica, M.Mierla, G.Munoz, C.Dumitrache:
Investigation of the halo (I)CME from August 25, 2001, Rom. Astron. J., 18, Nr.2, 143-150, Ed.Acad.Rom., 2008

30. C.Dumitrache, I.Chifu, M.Mierla:
Investigation of a Polar Filament Eruption in Stages, RoAJ 18 supl., 201-211, Ed.Acad.Rom., 2008
31. C.Dumitrache:
The International Heliophysical Year: Romanian Activities in 2007, Rom. Astron. J., 18, 183, 2008
32. C. Dumitrache, N.A. Popescu, V. Mioc:
Romanian Contributions to the International Heliophysical Year, in AIP Conf.Proc. 1043, Eds, V.Mioc, C.Dumitrache, N.A.Popescu, 59-62, 2008
33. C. Dumitrache:
Contributions to the Sun-Heliosphere Studies Using SOHO and Ulysses Data, AIP Conf.Proc. 1043, Eds, V.Mioc, C.Dumitrache, N.A.Popescu, 298-308, 2008
34. I.Chifu, O. Chiricuta, D.R. Constantin, C. Dumitrache:
Multiwavelengths study of active region 09778, AIP Conf.Proc. 1043, Eds, V.Mioc, C.Dumitrache, N.A.Popescu, 272-276, 2008
35. A.Oncica, N.A. Popescu, C. Dumitrache:
A CME Sequence Investigation, August 14-15, 2001, AIP Conf.Proc. 1043, Eds, V.Mioc, C.Dumitrache, N.A.Popescu, 323-327, 2008
36. O.Chiricuta, D.R.Constantin, C.V.Oprea, I.Chifu, A.Oncica, C.Dumitrache:
The Study of AR09767 and Its Neighborhood, AIP Conf.Proc. 1043, Eds, V.Mioc, C.Dumitrache, N.A.Popescu, 333-335, 2008
37. D. R. Constantin, M. Mierla, C. Oprea, C. Dumitrache:
Huge Complex Filament Evolution, AIP Conference Proceedings 934, 78-85, 2007
38. C. Oprea, M. Mierla, C. Dumitrache:
Analysis of 3D Magnetic Reconnections of Two Active Regions, AIP Conference Proceedings 934, 31-38, 2007
39. C. Dumitrache:
Plasma Flows in Coronal Streamers Numerical Simulation, AIP Conference Proceedings 934, 129-138, 2007
40. V. Mioc, C. Dumitrache:
Solar Prominence Models A New Perspective via the Theory of Dynamical Systems, AIP Conference Proceedings 934, 85-93, 2007
41. C.Dumitrache:
Numerical Simulations of Solar Active Phenomena at AIRA, AIP Conference Proceedings 895, 115-122, 2007
42. C.Dumitrache, C.Oprea, D.Constantin, M.Mierla, A.S.Popescu:
Huge Filament Observed in October 2001, AIP Conference Proceedings 895, 69-75, 2007
43. C.Dumitrache, E.Tifrea:
Fifty Years of Solar Research in Bucharest Observatory, AIP Conference Proceedings 895, 7-12, 2007

44. C.Dumitrache:
Coronal Streamer Formation Post CME- Numerical Simulation, ASP Serie, 370, 103-180, 2007
45. N.A.Popescu, C.Dumitrache:
Fifty Years of Romanian Astrophysics, in "Solar and Stellar Physics Through Eclipses", ASP Conference Series, Vol. 370, 329-333, 2007
46. C.Dumitrache:
From International Geophysical Year to International Heliophysical Year, Publications of the department of Astronomy of Eotvos University (PADEU) 19, 273-278, 2007
47. C.Dumitrache:
The International Heliophysical Year: Romanian Activities in 2007, Rom. Astron. J., 18, 183, 2008
48. C.Dumitrache:
Coronal hole numerical simulations, Rom. Astron. J., 16 Supl., 207-217, Ed.Acad.Rom., 2006
49. C.Dumitrache:
MHD simulation of Solar Coronal Mass Ejection, Publications of the department of Astronomy of Eotvos University (PADEU), vol. 15, Plasma and Astrophysics: from laboratory to outer space, eds. I.Ballai, E.Forgacs-Dajka, A.Marcu, K.Petrovay, p. 45-52, 2005
50. C.Dumitrache:
Filaments Differential Rotation Behavior within the Solar Cycle, Rom. Astron. J., 14, No. 2, Ed.Acad.Rom., 147155, 2004
51. C.Dumitrache:
Singularities of the differential rotation velocity of filaments within the solar cycle, Rom. Astron. J., 13, Ed.Acad.Rom., 47-54, 2003.
52. C.Dumitrache:
MHD numerical simulations of solar active phenomena (invited paper), in "Solar Researches in the South-Eastern European Countries: Present and Perspectives", eds. G. Maris and M. Messerotti, Observations Solaires, Ed. Acad. Romane, 95-105, 2002
53. C.Dumitrache, R. Popescu, L. Serbanescu, M. Mierla, P. Popescu:
Solar prominences observations with astrolabe, in "Solar Researches in the South-Eastern European Countries: Present and Perspectives", eds. G. Maris and M. Messerotti, Observations Solaires, Ed. Acad. Romane, 82 -86, 2002
54. R.Popescu, C.Dumitrache, P.Popescu:
Eruptive Prominence Observation at 11 August 1999 Eclipse, in "First Results of 1999 Total Eclipse Observations", eds. Acad. D.N. Mishev and Prof. K.J.H. Phillips, Bulgarian Acad.of Science, 127-137, 2002
55. C.Dumitrache:
On the Prominence Formation in a Current Sheet, Rom. Astron. J. 9, Ed.Acad.Rom., 139-151, 1999
56. R.Popescu, C.Dumitrache, P.Popescu:
Prominence Observation at 11 August 1999 Eclipse with the Astrolabe Danjon - Preliminary Results, Rom. Astron. J., 9, Suppl., Ed.Acad.Rom., 15-17, 1999

57. C.Dumitrache:
Numerical Simulations in a Current Sheet, Rom. Astron. J., 9, Suppl., Ed.Acad.Rom., 105-108, 1999
58. C.Dumitrache:
Observarea curentilor coronali la eclipsa totala de Soare, Anuarul Astronomic' 99 , Ed.Acad.Rom., 272-288, 1999
59. C.Dumitrache:
Evolution of complex filaments, in New Perspectives on Solar Prominences, IAU Coll.167, D. Webb, D. Rust and B. Schmieder (eds.), ASP Conf. Ser. Vol. 150, ISBN 1-886733-70-8, San Francisco, 221-224, 1998
60. C.Dumitrache, M.D.Suran:
Numerical simulation of a prominence formation in a neutral sheet, Rom. Astron. J., 6, Suppl., Ed.Acad.Rom., 61-64, 1996
61. C.Dumitrache:
The length of filaments as function of their inclination on the solar parallel, Rom. Astron. J., 6, Suppl., Ed.Acad.Rom., 65-68, 1996
62. C.Dumitrache, S.Dinulescu, E.R.Priest:
Aspects of filament evolutions, Pubbl.Obs.Astr.Catania, Special Vol eds. G.Belvedere, M.Rodono, B.Schmieder, G.Simnett, 65-67, 1994
63. C.Dumitrache:
Study of a middle-term evolution of an active-region filament, JOSO Annual Report, ed. M.Saniga, 181-182, 1994
64. C.Dumitrache:
Considerations on the Differential Rotation of Filaments, JOSO Annual Report, ed. A.v.Alsvonleben, 134 135, 1993
65. S.Dinulescu, C.Dumitrache, G.Maris:
Temporal Variations of Solar Activity Indicators during Cycle 22, Rom. Astron. J., 3, Ed.Acad.Rom., 105-115, 1993
66. C.Dumitrache:
Protuberantele solare, Anuarul Astronomic' 93, 297 315, Ed.Acad.Rom., 1992
67. G.Maris, S.Dinulescu, C.Dumitrache:
The Role of Solar Radiation in Stratosphere, Troposphere and Biosphere Interactions, The Bulletin of the Romanian National Committee for IGBP, 14, Ed.Acad.Rom., 1992
68. G.Maris, S.Dinulescu, C.Dumitrache:
Temporal Variations of Solar Activity Indicators during Cycle 22, JOSO Annual Report, ed. A.v.Alsvonleben, 58-61, 1992
69. C.Dumitrache:
Comportarea in latitudine a protuberantelor eruptive pe un ciclu solar de 22 ani, Progrese n Fizica, ed.ICEFIZ, 664-665, 1989
70. C.Dumitrache , M.Anghel:
Rapid Processes in Solar Prominences during the Solar Cycle No.21, Observations Solaires Rot.1784-1796, Ed.Acad.Rom, 52-56, 1988

71. C.Dumitrache, M.Ciobanu:
Calculul coordonatelor ecuatoriale ale Soarelui, Progrese n Fizica, ed.ICEFIZ, 695-696 , 1988
72. C.Dumitrache, M.Anghel:
Procese rapide n protuberantele solare pentru ciclul 21, Progrese n Fizica, ed.ICEFIZ, 693-694, 1988
73. C.Dumitrache:
Aspecte legate de procesele rapide n protuberantele solare n perioada 1976-1979, Progrese n Astronomie si Stiinte Spatiale, ed.ICEFIZ, 91-92, 1987
74. C.Dumitrache:
Forecast of the Secular Cycle of the Solar Activity, Observations Solaires Rot.1771-1783, Ed.Acad.Rom., 38-40, 1987
75. C.Dumitrache:
Forecast of the Sunspot Relative Number, Observations Solaires Rot.1757-1770, Ed.Acad.Rom., 36-40, 1986
76. C.Dumitrache, M.Ciobanu, M.Suran:
Calculul timpului sideral pentru anul 1988, Progrese n Fizica, ed.ICEFIZ, 741-742, 1986
77. C.Dumitrache:
Proгноza ciclului secular al activitatii solare, Progrese n Fizica, ed.ICEFIZ, 734-735, 1986
78. C.Dumitrache:
Helioseismologia, Anuarul Astronomic'87, 49-53, Ed.Acad.Rom., 1986
79. C.Dumitrache:
Consideratii asupra ciclicitatii activitatii solare, Progrese n Astronomie, ed.ICEFIZ, 77-78, 1985
80. C.Dumitrache:
The Hubble Constant and the Invariantive Mechanics, Topics in Astrophysics, Astronomy and Space Sciences 2, 64-68, 1986
81. C.Dumitrache:
Constanta lui Hubble si mecanica invariantiva, Progrese n Astronomie, ed.ICEFIZ, 119-120, 1985