

Curriculum Vitae

Professor Kanaris C. TSINGANOS



Institutional Addresses:



National and Kapodistrian University of Athens,
Department of Physics,
Section of Astrophysics, Astronomy & Mechanics
Panepistimiopolis, GR 157 84, Zografos, Athens
Tel/Fax: +30-210-7276915 (Direct)
+30-210-7276715 (Secretary)

Email: tsingan@phys.uoa.gr

Web page: <http://users.uoa.gr/~tsingan/CV2018.pdf>

Updated: January 2018

Briefly:

- Author/Co-author of 240+ scientific publications in international journals and conference proceedings (NASA ADS)
- Author/Co-author of 116+ scientific publications in refereed international journals (NASA ADS)
- Work cited in 3800+ citations (Google Scholar), h=34, 1030+ normalized citations (NASA ADS).
- Invited speaker for more than 30 review talks
- Supervisor of several PhD's
- Lecturer and visiting professor at University of Chicago, Harvard University, Katholieke Universiteit Leuven, Un. of Turin, St. Andrews Un., Observatoire de Paris, Un. of Porto.
- Currently PI in several national and EU funded research grants and networks
- Author/Editor/Translator of several scientific Textbooks/Volumes/Books
- Participates in several active research collaborations abroad
- Invited expert for the evaluation of Marie Curie European postdoctoral Fellowships continuously since 2005
- Invited panel member for the evaluation of the EU/Ideas/ERC Advanced Grants continuously since 2008, PRACE EC proposals, etc.
- Elected secretary (2002-2006) and president of the Hellenic Astronomical Society (2006 - 2010)
- Vice-president of the Hellenic National Committee for Astronomy (2008 - 2010)
- National representative in ESA's Science Programm Committee (2005-2010)
- Member of National Advisory Council for Research & Technology (2005 - 2010)
- Directed the first evaluation of the Physics Dept of the Un. of Crete (1995)
- PI of Greek contribution/Coronagraph Control Board to ESA's Proba 3 mission (2009 -)
- National contact person for the International Astronomical Union's 100th anniversary in 2019
- Director, National Observatory of Athens (2011 – 2016).

1. Education:

- Aristotelion Un. of Thessaloniki (Greece), B.A. in Physics (1974)
- University of Chicago (USA), M.Sc. in Physics (1976)
- University of Chicago (USA), Ph.D. in Physics (1980)

2. Professional Positions:

- ❖ 1976-1980 Laboratory, Teaching and Research Assistant, Department of Physics, University of Chicago
- ❖ 1980-1981 Research Associate, Enrico Fermi Institute, Univ. of Chicago
- ❖ 1981-1984 Research Associate, Harvard University
- ❖ 1983-1984 Lecturer, Department of Physics, Harvard University
- ❖ 1984-1988 Assistant Professor, Department of Physics, University of Crete
- ❖ 1988-1997 Associate Professor, Department of Physics, University of Crete
- ❖ 1997-2001 Professor, Department of Physics, University of Crete
- ❖ 1989-2001 Foundation for Research and Technology Hellas (FORTH), IESL
- ❖ 1991-1992 Visiting Professor at University of St-Andrews (UK), University of Torino (Italy), Observatoire de Paris (France)
- ❖ 1994-1994 Visiting Professor, Universidade do Porto, Porto, (Portugal)
- ❖ 1996-1996 Visiting Professor, Katholieke Universiteit Leuven (Belgium)
- ❖ 2001 - Professor, Department of Physics, University of Athens
- ❖ 2011 – 2016, Director, National Observatory of Athens.

3. Professional Activities

- ✓ Member of the International Astronomical Union
- ✓ Member of the American Physical and Astronomical Society
- ✓ Founding Member, Secretary and President of the Hellenic Astronomical Society (Hel.A.S.)

4. Fellowships

- Greek State Scholarships Foundation (IKY) (1969 – 1973)
- Teaching/Research Fellowship, Un. of Chicago, Dpt. of Physics (1976–1980)
- Post-doctoral Fellowship, E. Fermi Institute for Nuclear Studies (1980–1981)
- Post-doctoral Fellowship, Harvard College Observatory (1981 – 1983)

5. General Fields of Investigation

- Plasma Astrophysics - Magnetohydrodynamics - Cosmical Magnetic Fields
- Solar and Space Physics - Solar and Stellar Winds - Accretion Disks
- Star Formation - Cosmic Jets -Active Galactic Nuclei, Quasars, Black Holes
- Plasma Equilibrium and Stability - Nonlinear Differential Equations
- Instrumentation for Space Missions – Data Compression for Space Missions
- Environmental Studies in our changing Planet – Precursor Seismic Effects.

6. Personal

- ✚ Married to Dr Georgia Vlastou, 3 children (Christos, Antonis, Eugenios)
- ✚ Born 29/7/51, Filiatra Messinias, Greece

7. Collaborative Research outside Greece

- ✓ ERA-PLANET, A European Network for Observing our Changing Planet
- ✓ JETSET, A European Research and Training Network
- ✓ ENIGMA, A European Research and Training Network
- ✓ PLATON, A European Research and Training Network
- ✓ Universite de Paris VII & Observatoire de Paris, Paris, FRANCE
(Prof. C. Sauty, Dr V. Cayette, Dr. Sylvie Cabrit)
- ✓ Universita di Torino, Osservatorio Astronomico di Torino, Torino, ITALY
(Profs. A. Ferrari, S. Massaglia, E. Trussoni, G. Bodo)
- ✓ Laboratoire Astrophysique de Marseille, Marseille, FRANCE
(Drs P. Lamy, S. Vives)
- ✓ Dublin Institute for Advanced Studies, School of Cosmic Physics, Dublin,
IRELAND (Prof. T.P. Ray)
- ✓ University of Chicago, Departments of Physics and Astronomy, Chicago,
USA (Profs. E.N. Parker, R. Rosner)
- ✓ Universidade do Porto, Porto, PORTUGAL (Dr J. Lima)
- ✓ University of St. Andrews, Dept of Applied Mathematics, St. Andrews, UK
(Profs. E. Priest, A. Hood, Dr. V. Archontis, Dr P. Syntelis)

- ✓ Moscow State Engineering Physics Institute, Moscow, RUSSIA
(Prof. S. Bogovalov)
- ✓ Naval Research Laboratory, USA (Dr. A. Vourlidas)
- ✓ etc.

8. Organization of Scientific Conferences

- Co-founder of Heraklion Summer School of Advanced Physics : 70 -- 100 students from all Greek Universities/Institutes (co-director in its first two years 1989, 1990, director in 1993)
- Director of NATO Advanced Study Institute on Solar and Astrophysical Magnetohydrodynamic Flows, Heraklion, June 11 -- 22, 1995 (135 participants from 25 countries)
- Member of Scientific Organizing Committee of 2nd Symposium on Solar and Space Physics in Greece, Xanthi, April 26 -- 29, 1993
- Member of Scientific Organizing Committee of 7th Joint Meeting of the Greek and Cypriotic Societies of Physicists, Heraklion, April 1996
- Convener of Solar Physics Session of Joint European and National Astronomical Meeting for 1997 JENAM - 97, 2 - 5 July 1997, Thessaloniki, Greece
- Director of Euroconference on Dynamical MHD Phenomena in Solar and Astrophysical Plasmas, June 22 -- July 3, 1998
- Co-organizer of Symposium on AGN in their Cosmical Environment JENAM99, September 7 -- 9, 1999, Toulouse, France
- Local co-organizer of NATO Advanced Study Institute on Space Storms and Space Weather Hazards, June 19 -- 29, 2000, Crete, Greece
- Member of Scientific Organizing Committee, Local co-organizer and co-convener of Solar, Space and Planetary Physics session at 5th conference of the Hel.A.S, Sept. 20 - 22, 2001, Crete, Greece
- Member of Scientific Organizing Committee of the 6th conference of Hel.A.S., Sept. 15 - 17, 2003, Athens, Greece
- Member of Scientific Organizing Committee of the 7th conference of Hel.A.S., Sept. 7 - 11, 2005, Cephallenia, Greece
- Member of Scientific Organizing Committee of the RTN School Jets from Young Stars I: Models and Constraints, 9-13 January 2006, Villard-de-Lans, France
- Member of Scientific Organizing Committee of the RTN School Jets from Young Stars II: Observations, 4-9 September 2006, Elba, Italy
- Co-Chair of Scientific Organizing Committee, Chair of Local Organizing Committee, Solar Orbiter Workshop II, 16-20 October 2006, Athens, Greece

- Chair of Scientific Organizing Committee of the 8th conference of Hel.A.S., Sept. 15 - 17, 2007, Thasos, Greece
- Member of Scientific Organizing Committee of the RTN School Jets from "Young Stars III: Numerical MHD and Instabilities", Sauze d' Oulx, Torino, Italy, January 8-13, 2007
- Member of Scientific Organizing Committee of the RTN School Jets from "Young Stars IV: From models to observations and experiments", 25-29 June 2007, Azores, Portugal
- Co-Chair of Scientific Organizing Committee, Chair of Local Organizing Committee, Protostellar Jets in Context, 7-12 July 2008, Rhodes, Greece
- Chair of Scientific Organizing Committee of the 9th International Astronomy conference of Hel.A.S., Sept. 21 - 25, 2009, Athens, Greece

9. Edition of Scientific Volumes

- Advances in Hellenic Astronomy during the International Year of Astronomy 2009, Publications of the Astronomical Society of the Pacific, Vol. 424, eds. K. Tsinganos, D. Hatzidimitriou, T. Matsakos, pages 540 (2010).
- Protostellar Jets in Context, Springer, Heidelberg, eds. K. Tsinganos, T. Ray, M. Stute, pages 662 (2009).
- Solar and Astrophysical Magnetohydrodynamic Flows, Kluwer Academic Publishers, ed. K. Tsinganos, pages 750 (1996).
- Guest Editor (with Prof. A. Ferrari) of Astrophysical Letters and Communications, Vol. 34, Numbers 1 -- 6, pages 400, Gordon and Breach Publishing Co. (1996)

10. Authorship of Textbooks (in Greek)

- Introduction to Theoretical Mechanics, 467 pages
- Plasma Astrophysics, 538 pages
- Classical Electrodynamics, 175 pages

11. Translation of Scientific Volumes in the Greek Language

- The Invisible Universe, G.B. Field and E. Chaisson Crete University Press, pages 220 (1990).
- Astrophysics, Chapter 6, Vol. II, F. Shu Crete University Press, pages 300, (1991).
- Calculus and Analytic Geometry, Vol. I, G. Thomas and R. Finney, Crete University press, pages 910 (1992).
- Calculus and Analytic Geometry, Vol. II, G. Thomas and R. Finney, Crete University press, pages 690 (1992).

12. Referee for the Journals

Astrophysical Journal, Astronomy and Astrophysics, Monthly Notices of the Royal Astronomical Society, Geophysical and Astrophysical Fluid Dynamics, etc.

13. Recent Funding of Research Activities and Grants

- ❖ Principal Investigator of a grant to the National Observatory of Athens by the European Community 60 KEuro, ERA-PLANET, 2016 – 2019.
- ❖ Principal Investigator of a grant to the National Observatory of Athens by the General Secretariat of Research & Technology, for the Environment, Space Physics, Astrophysics and Seismology, 0.81 MEuros, 2015 - 2017
- ❖ Principal Investigator of a grant to the National Observatory of Athens by the European Space Agency (ESA) for the project Hubble Catalogue of Variables, 1 MEuros (2015-2017). The goal is to produce a catalogue of variable sources chosen from the 30 million sources in the Hubble Source Catalog (HSC), validate those candidates and make them available in a catalogue. Over its 25 years of operation, Hubble has visited some regions of the sky multiple times, providing an opportunity to conduct a systematic search for variable objects among the sources in the HSC. The Hubble Catalogue of Variables (HCV) is expected to contain one of the largest collections of variable point sources and extended objects available, spanning a long time baseline up to 25 years, and reaching unprecedented magnitude depths. For more see :

<https://www.spacetelescope.org/forscientists/announcements/sci15008/>

http://www.noa.gr/index.php?option=com_content&view=article&id=728:hubble-catalogue-of-variables-details&catid=73:2013-10-10-08-55-06&lang=el

- ❖ Principal Investigator of a grant to Greece by the European Space Agency (ESA) for the construction of the Coronagraph Electronics and the Coronagraph Control Board of the ASPIICS Coronagraph (Association de Satellites Pour l'Imagerie et l'Interferometrie de la Couronne Solaire). ASPIICS will be the single payload of Proba 3, an innovative ESA Formation Flying (FF) space mission. FF is considered as the most promising approach to deploy the forthcoming generation of very large instruments in space. ASPIICS heralds a new era of coronal studies by allowing the deployment of giant coronagraphs in space, capable of continuously observing the inner solar corona down to the solar limb under conditions of natural eclipses, a goal impossible with present space and ground-based instruments. ESA is taking a leading role in this technology and has proposed an ambitious program starting with the PROBA-3 demonstration mission and culminating with DARWIN, an interferometer aimed at the search of terrestrial exoplanets orbiting nearby stars within their habitable zone.

Proba 3 is planned for launching the year 2020, and the ASPIICS Coronagraph is going to observe the solar Corona till 2023. In the ASPIICS team participate 10 European, 2 American and 1 Russian teams and from Greece all Greek solar/space physicists from the Univ. of Athens, Academy of Athens, National Observatory of Athens, Univ. of Thessaloniki and Ioannina, together with the Hellenic Aerospace Industry and other high technology industries. The Greek team will construct the electronics of ASPIICS.

For more see : <http://users.uoa.gr/~tsingan/coronograph.html>

- ❖ Principal Investigator of a grant 105 KEuros by the European Space Agency (ESA) for demonstrating in the laboratory the capabilities of the ASPIICS Coronagraph (2009 - 2010). This investigation was performed in the framework of the ESA STARTIGER program of technology demonstration by a consortium of scientific institutes and industrial partners, led by the Laboratoire d'Astrophysique de Marseille, the University of Athens, the Centre Spatial de Liege, INAF-Osservatorio Astronomico Torino and the Rutherford Appleton Laboratory. Other participating organisations were the

National Observatory of Athens, the LATMOS (Laboratoire Atmosphere, Milieux, Observations Spatiales) in France, the University of Padova and the University of Firenze. In the program participated several Greek scientists and engineers and the activity has been considered highly successful. It received very positive comments by ESA (for more see the ESA portal : http://www.esa.int/esaCP/SEMYGYF098G_index_0.html)

- ❖ Principal Investigator in Greece of a 4 MEuros grant by the European Community (280 KEuro to Greece) for a network of 11 research teams in the Marie Curie Research Training Network (RTN) "JETSET": JET Simulations, Experiments and Theories 2005 - 2009. Three Greek graduate students obtained their PhD via this RTN in European Universities. In the frame of this RTN at the Univ. of Athens worked two post doctoral fellows from Germany and Croatia. For more see: <http://www.jetsets.org/home.html>
- ❖ Principal Investigator in Greece of a 1.470 KEuros grant by the European Community (145 KEuro to Greece) for a network of 8 research teams in the Marie Curie Research Training Network ENIGMA on Quasar Variability, 2002 - 2006. In the frame of this RTN, at the Univ. of Athens was supported for three years a post doctoral fellow from Germany. For more see: <http://www.lsw.uni-heidelberg.de/projects/enigma/>
- ❖ Principal Investigator in Greece of a 1.470 KEuros grant by the European Community (180 KEuro to Greece) for a network of 8 research teams in the Marie Curie Research Training Network (RTN) PLATON "Research Training Network, Plasma Astrophysics, Theory, Observations and Numerical Simulations", 2000 - 2004. In the frame of this RTN, at the Univ. of Athens were supported for three years two post doctoral fellows from France and the UK. For more see: <http://www-solar.mcs.st-and.ac.uk/~thomas/platon/>
- ❖ Principal Investigator in Greece of a bilateral research collaboration with France, 2000 – 2004
- ❖ Principal Investigator in Greece of a research grant by EU/INTAS for a research collaboration between Greece - Russia - Germany - France, 2000 – 2003
- ❖ Principal Investigator in Greece of a research grant by NATO for a research collaboration between Greece - Russia, 2001 – 2003

14. Teaching

Teaching several undergraduate and graduate level courses at the Department of Physics of the Un. of Athens, using modern multimedia platforms, e.g.,

Theoretical Mechanics : <http://eclass.uoa.gr/modules/agenda/agenda.php>

Plasma Physics : <http://eclass.uoa.gr/courses/PHYS135/>

15. Research Publications in International Journals by Year

(numbering in accordance with SAO/NASA Astrophysics Data System,
<http://adsabs.harvard.edu>)

1979

[1] “Bernoulli Forces on an Elliptical Cylinder by a Nonuniform Flow”, E. N. Parker and K. Tsinganos 1979, *Physics of Fluids*, 22(10), 1847 -- 1851.

[2] “Sunspots and the Physics of Magnetic Flux Tubes. IV. Aerodynamic Lift On a Thin Cylinder in Convective Flows”, K. Tsinganos 1979, *Astrophysical Journal*, 231, 260 -- 269.

1980

[3] “Sunspots and the Physics of Magnetic Flux Tubes. X. On the Hydrodynamic Instability of Buoyant Fields”, K. Tsinganos 1980, *Astrophysical Journal*, 239, 746 -- 760.

1981

[4] “Helically Symmetric Hydromagnetic Equilibria: Exact Solutions”, K. Tsinganos 1981, *Bulletin of the American Astronomical Society*, Vol. 13, p. 907

[5] “MHD Equilibrium. I. Exact Solutions of the Equations”, K. Tsinganos 1981, *Astrophysical Journal*, **245**, 764 -- 782.

1982

[6] “MHD Equilibrium. II. General Integrals of the Equations with one Ignorable Coordinate”, K. Tsinganos 1982, *Astrophysical Journal*, **253**, 775 -- 790.

[7] “A Remarkable General Property of the MHD Equations and Its Relation to Coronal Heating Mechanisms”, K. Tsinganos 1982, *Bulletin of the American Astronomical Society*, Vol. 14, p. 623

[8] “Stellar Winds with Multiple Critical Points and Shock Transitions”, Habbal, S. R.; Tsinganos, K. C., *Bulletin of the American Astronomical Society*, Vol. 14, p. 608

[9] “MHD Equilibrium. III. Helically Symmetric Fields”, K. Tsinganos 1982, *Astrophysical Journal*, 259, 820 -- 831.

[10] “MHD Equilibrium. IV. Non-Equilibrium of Non-Symmetric Hydromagnetic Topologies”, K. Tsinganos 1982, *Astrophysical Journal*, 259, 832 -- 834.

[11] “A New Class of Standing Shocks in Astrophysical Jets and Accretion Flows”, Tsinganos, K.; Habbal, S.; Rosner, R., 1982, *Bulletin of the American Astronomical Society*, Vol. 14, p. 871

[12] “Time Evolution of the Solar Wind Flow with Momentum Addition and the Formation of Standing Shocks”, Habbal, S. R.; Tsinganos, K.; Rosner, R., 1982, *Bulletin of the American Astronomical Society*, Vol. 14, p. 939

1983

[13] “Multiple Transonic Solutions With a New Class of Shock Transitions in Steady Isothermal Solar and Stellar Winds”, S. R. Habbal and K. Tsinganos 1983, *Journal of Geophysical Research*, 88(A3), 1965 -- 1975.

[14] “Hydromagnetic Solar Wind in a Partially Open Magnetic Field”, Low, B. C.; Tsinganos, K., *Bulletin of the American Astronomical Society*, Vol. 15, p. 995

[15] “Multiple Transonic Solutions and a New Class of Shock Transitions in Solar and Stellar Winds”, S. R. Habbal, K. Tsinganos and R. Rosner 1983, in *Solar Wind 5*, (NASA Periodical Publication 2280, Washington D.C.), 213 -- 219.

[16] “Formation of Standing Shocks in Stellar Winds and Related Astrophysical Flows”, K. Tsinganos, S. R. Habbal and R. Rosner 1983, in *JPL Solar Wind 5*, p. 289-293

1984

[17] “A Relativistic Wind-type Model for VLBI Jets”, A. Ferrari, R. Rosner and K. Tsinganos 1984, in *VLBI Jets and Compact Radio Sources*, R. Fanti, K. Kellerman, G. Setti (eds.), (Dordrecht: D. Reidel) 110th IAU Symposium, Bologna, Italy, 233 -- 236.

[18] "Collimated Winds from Active Galactic Nuclei", A. Ferrari, R. Rosner, E. Trussoni, K. Tsinganos 1984, in *Proceedings of the Max Planck Workshop*, Garching, MPE Rep., No. 184, p. 200 - 202.

[19] "Evolution of Solar Magnetic Flux", J. P. Boris, C. R. DeVore, L. Golub, R. Howard, B. C. Low, N. R. Sheeley Jr., G. W. Simon and K. Tsinganos 1984, in *Solar-Terrestrial Physics*, D.M. Butler and K. Papadopoulos (eds.), (Washington, D.C.: NASA Ref. Publication 1120), Chapter 3, p. 3-1 - 3-34

[20] "A Wind-Type Model for the Generation of Astrophysical Jets", A. Ferrari, S. R. Habbal, R. Rosner and K. Tsinganos 1984, *Astrophysical Journal Letters* 277, L35 -- L39.

[21] "On the Topological Stability of Magnetostatic Equilibria", K. Tsinganos, J. Distler and R. Rosner 1984, *Astrophysical Journal*, 278, 409 -- 419.

[22] "Collimated flows from active galactic nuclei -- Structure and evolution of AGN" 1985, A. Ferrari, E. Trussoni, R. Rosner and K. Tsinganos 1985, In *Max-Planck Inst. fuer Physik und Astrophysik X-Ray and UV Emission from Active Galactic Nuclei* p. 200-202

[23] "An Analytic Model For Hydromagnetospheres", K. Tsinganos and B. C. Low 1984, in Plasma Astrophysics, *Proceedings of the Course and Workshop*, Varenna, ESA SP-207, 207 -- 292.

1985

[24] "Quasi-two-dimensional Cosmic Jets", K. Tsinganos, A. Ferrari and R. Rosner 1984, in *Unstable Current Systems and Plasma Instabilities in Astrophysics*, M. R. Kundu and G. D. Holman (eds.), (Dordrecht: D. Reidel), 107th IAU Symposium, University of Maryland, 497 -- 501.

[25] "On Wind-type Flows in Astrophysical Jets. I. The Initial Relativistic Acceleration", A. Ferrari, E. Trussoni, R. Rosner and K. Tsinganos 1985, *Astrophysical Journal*, 294, 397 -- 418.

[26] "Acceleration and Thermal Instabilities in the Jets of SS433", G. Bodo, A. Ferrari, S. Massaglia and K. Tsinganos 1985, *Astronomy and Astrophysics*, 149, 246 -- 252.

[27] "On the Solution Topologies of Polytopic Winds", C. Baily, R. Rosner and K. Tsinganos 1985, *Astrophysical Journal*, 296, 696 -- 709.

1986

[28] "Collimated Winds from Active Galactic Nuclei", A. Ferrari, E. Trussoni, R. Rosner and K. Tsinganos 1986, in *Structure and Evolution of Active Nuclei*, G. Giuricin, F. Mardirossian, M. Mezzetti and M. Ramella eds., (Dordrecht: D. Reidel), pp. 543 - 546.

[29] "On Wind-type Flows in Astrophysical Jets. II. Propagation Outside the Nucleus and the Case of M87", A. Ferrari, E. Trussoni, R. Rosner and K. Tsinganos 1986, *Astrophysical Journal*, 300, 577 -- 590.

[30] "On Magnetic Field Stochasticity and Line Broadening in Solar Flares", E. Antonucci, R. Rosner and K. Tsinganos 1986, *Astrophysical Journal*, 301, 975 -- 980.

[31] "Steady Hydromagnetic Flows in Open Magnetic Fields. I. A Class of Analytic Solutions", B. C. Low and K. Tsinganos 1986, *Astrophysical Journal*, 302, 163 -- 187.

[32] "Wind-type Flows and Astrophysical Jets", A. Ferrari and K. Tsinganos 1986, in *Canadian Journal of Physics*, 64(4), pp. 456 - 462.

1987

[33] "Line Broadening and Magnetic Reconnection at Flare Onset", E. Antonucci, R. Rosner and K. Tsinganos 1987, in *Solar Maximum Analysis*, eds. V.E. Stepanov and V.N. Obridko, (Utrecht: Science Press), pp. 37 - 44.

[34] "A Model for Collimated Outflows in Molecular Clouds and the Case of HH7-11". G. Silvestro, A. Ferrari, R. Rosner, S. Massaglia and K. Tsinganos 1987, *Nature*, Vol. 325, No. 6101, 228 -- 230.

1988

[35] "Hydromagnetic Winds from Partially Open Magnetospheres", K. Tsinganos 1988, in *Mass Outflows from Stars and Galactic Nuclei*, eds. L. Bianchi and R. Gilmozzi, Dordrecht: Kluwer Academic Publishers, pp. 235 - 238.

[36] "Helicoidal Astrophysical Outflows", K. Tsinganos and G. Vlastou-Tsinganos 1988, in *Mass Outflows from Stars and Galactic Nuclei*, eds. L. Bianchi and R. Gilmozzi, Dordrecht: Kluwer Academic Publishers, pp. 239 - 244.

[37] "Evolution of Perturbations and Shock Formation in Stellar Winds and Jets", E. Trussoni, A. Ferrari, R. Rosner and K. Tsinganos 1988, in *Mass Outflows from Stars and Galactic Nuclei*, eds. L. Bianchi and R. Gilmozzi, Dordrecht: Kluwer Academic Publishers, 397 -- 400.

[38] "Cosmic Jets", K. Tsinganos 1988, in the Volume *In Memoriam D. Kotsakis*, eds. G. Contopoulos, B. Barbanis and P.G. Laskarides, Athens, pp. 393 - 409.

[39] "On Wind-type Flows in Astrophysical Jets. III. Temporal Evolution of Perturbations and the Formation of Shocks", E. Trussoni, A. Ferrari, R. Rosner and K. Tsinganos 1988, *Astrophysical Journal*, 325, 417 -- 441.

[40] "Analytical Models of Helical Wind-type Astrophysical Flows", K. Tsinganos and G. Vlastou-Tsinganos 1988, *Astronomy and Astrophysics*, 193, 125 -- 130.

1989

[41] "On the Existence of Globally Ordered Magnetic Flux Surfaces", R. Rosner, B. C. Low, K. Tsinganos and M. A. Berger 1989, *Geophysical and Astrophysical Fluid Dynamics*, 48, 251.

[42] "Steady Hydromagnetic Flows in Open Magnetic Fields. II. Global Flows with Static Zones", K. Tsinganos and B. C. Low 1989, *Astrophysical Journal*, 342, 1028 -- 1048.

1990

[43] "Topological Solutions for Collimated Flows", K. Tsinganos and E. Trussoni 1990, in *Galactic and Intergalactic Magnetic Fields*, (IAU Symposium 140), eds. R. Beck, P.P. Kronberg and R. Wielebinski, Kluwer Academic Publishers, pp. 333 -- 336.

[44] "Nonlinear MHD models of astrophysical winds", Tsinganos, K.; Trussoni, E. 5th Florida Workshop in Nonlinear Astronomy: *Nonlinear Astrophysical Fluid Dynamics*, p. 118 - 125

[45] "Analytical Studies of Collimated Winds" I. Topologies of 2-D Hydrodynamic Solutions", K. Tsinganos and E. Trussoni 1990, *Astronomy and Astrophysics*, 231, 270--276.

[46] "Nonlinear MHD models of astrophysical winds", Tsinganos, K.; Trussoni, E. in New York Academy of Sciences, *Annals* (ISSN 0077-8923), vol. 617, Dec. 31, 1990, p. 118-125.

1991

[47] "Hydromagnetic Equilibrium", K. Tsinganos, 1991, invited chapter in *Advances in Solar System Magnetohydrodynamics*, eds. E. Priest and A. Hood, Cambridge University Press, pp. 257 -- 279.

[48] "The Acceleration of the Nonsymmetric and Nonpolytropic MHD Solar Wind", K. Tsinganos, 1991, *Advances in Space Research*, 11, No 1, pp. 213 -- 219.

[49] "Analytical Studies of Collimated Astrophysical Winds. II. Topologies of 2-D Helicoidal MHD Solutions", K. Tsinganos and E. Trussoni, 1991, *Astronomy and Astrophysics*, 249, 156.

1992

[50] "Asymmetric MHD Stellar Winds and Related Flows", K. Tsinganos, 1992, Highlights in Astronomy, J. Bergeron (ed.), Vol. 9., pp. 667 -- 668, Kluwer Academic Publishers.

[51] "Magnetized and Collimated Meridional Outflows", K. Tsinganos and E. Trussoni, 1992, *Memorie della Societa Astronomica Italiana*, Vol. 63, No 3/4, pp. 649 -- 662.

[52] "The MHD Description of Cosmic Plasmas", K. Tsinganos, 1992, invited chapter in *The Sun: A Laboratory for Astrophysics*, eds. J. Brown and J. Schmelz, Kluwer Academic Publishers, pp. 139 -- 154.

[53] "Symmetric and Nonsymmetric MHD", K. Tsinganos, 1992, invited chapter in *The Sun: A Laboratory for Astrophysics*, eds. J. Brown and J. Schmelz, Kluwer Academic Publishers, pp. 155 -- 172.

[54] "Exact MHD Solutions for Astrophysical Outflows", K. Tsinganos, E. Trussoni and C. Sauty, 1992, invited chapter in *The Sun: A Laboratory for Astrophysics*, eds. J. Brown and J. Schmelz, Kluwer Academic Publishers, pp. 349 -- 376.

[55] "Nonradial and Nonpolytropic Astrophysical Outflows. I. Hydrodynamic Solutions with Flaring Streamlines", K. Tsinganos and C. Sauty, 1992, *Astronomy and Astrophysics*, 255, 405.

[56] "Nonradial and Nonpolytropic Astrophysical Outflows. II. Topologies of MHD Solutions with Flaring Streamlines", K. Tsinganos and C. Sauty, 1992, *Astronomy and Astrophysics*, 257, 790-806.

[57] "MHD Equilibria with Flows in Uniform Gravity, I. 1-D Prominence and Arcade-type Solutions", K. Tsinganos and G. Surlantzis, 1992, *Astronomy and Astrophysics*, 259, 585-594.

1993

[58] "Outflow Focusing in Rotating Stellar Magnetospheres" K. Tsinganos, E. Trussoni and C. Sauty, 1993, in *Advances in Stellar and Solar Coronal Physics*, J. Linsky and S. Serio (eds.), Kluwer Academic Publishers, pp. 615 -- 622.

[59] "Steady MHD Flows in Uniform Gravity: A Class of Exact 2-D Solutions for Coronal Loops" K. Tsinganos, G. Surlantzis and E. Priest, 1993, *Advances in Stellar and Solar Coronal Physics*, J. Linsky & S. Serio (eds.), Kluwer Academic Publs, pp. 623-627.

[60] "Analytical Studies of Collimated Astrophysical Winds. III. Nonrotating Meridional MHD Outflows", E. Trussoni and K. Tsinganos, 1993, *Astronomy and Astrophysics*, 269, pp. 589 -- 600.

[61] "Helically Symmetric MHD Equilibrium Solutions" M. Villata and K. Tsinganos 1993, *Phys. Fluids B*, (7), pp. 2153 -- 2164.

[62] "MHD Equilibrium with Flows in Uniform Gravity. II. A Class of 2-D Exact Solutions for Coronal Loops", Tsinganos, K. Surlantzis, G. and Priest, E., 1993, *Astronomy and Astrophysics*, 275, pp. 613 -- 629.

1994

[63] "MHD Jets and Winds" K. Tsinganos and C. Sauty, 1994, in *Cosmical Magnetism*, D. Lynden-Bell (ed.), Kluwer Academic Publishers, pp. 45 -- 54.

[64] "The Heating of the Solar Corona, K. Tsinganos 1994, invited review chapter in *Solar and Space Physics in Greece Today I*, pp. 53 -- 73, Chapter 4.

[65] "Nonradial and Nonpolytropic Astrophysical Outflows. III. The Transition from Jets to Winds" C. Sauty and K. Tsinganos, 1994, *Astronomy and Astrophysics*, 287, pp. 893 -- 926.

1995

[66] "Modeling the heliolatitudinal gradient of the solar wind parameters with exact MHD solutions", Lima, J. J. G., Tsinganos, K., Porto Univ., *International Solar Wind 8 Conference*, p. 91

[67] "On the Magnetic Collimation of Jets from Young Stellar Objects", C. Sauty, K. Tsinganos and E. Trussoni, in *Disks and Outflows Around Young Stars*, S.V.W. Beckwith, J. Staude, A. Quetz and A. Natta (eds.), 1995, Lecture Notes in Physics 435, Springer-Verlag, pp. 312 - 328.

1996

[67] "The Acceleration of the Nonspherically Symmetric Solar Wind and the Solar Probe", K. Tsinganos, 1995, *Advances in Space Research*, 17, No. 3, pp. (3)65-(3)74, Pergamon Press.

[68] "Guest Editors' Introduction," Tsinganos, K., Ferrari, A., *Astrophysical Letters and Communications*, Vol. 34

[69] "Separatrix Characteristics in Steady MHD Flows", G. Surlantzis, K. Tsinganos and E. R. Priest, 1996, *Astrophysical Letters and Communications*, 34, pp. 251 - 259.

[70] "Two-dimensional MHD Models for Stellar Winds", J.J.G. Lima, K. Tsinganos and E. R. Priest, 1996, *Astrophysical Letters and Communications*, 34, pp. 281 - 287.

[71] "Solar and astrophysical magnetohydrodynamic flows", Tsinganos, K. C. *NATO ASI Ser., Ser. C, Math. Phys. Sci.*, Vol. 481.

[72] "Advanced Study Institute on solar and astrophysical magnetohydrodynamic flows", Tsinganos, Kanaris C.; Ferrari, Attilio, *Proceedings of the NATO Advanced Study Institute (ASI) held in Heraklion, Crete, Greece, 11-23 June 1995*, New York: Gordon and Breach Science Publishers,

[73] "The Heliolatitudinal Gradient of the Solar Wind During Solar Minimum Conditions Modelled by Exact Hydrodynamic Solutions", J.J.G. Lima and K. Tsinganos, 1996, *Geophysical Research Letters*, 23, No 2, pp. 117 - 120.

[74] "MHD Self-similar Solutions for Collimated Jets", E. Trussoni, C. Sauty and K. Tsinganos 1996, in *Extragalactic Radio Sources*, R. Ekers, C. Fanti and L. Padrielli (eds.), Kluwer Acad. Publs., pp. 455 - 456.

[75] "On the Magnetic Collimation of Jets from Young Stellar Objects", Sauty, C.; Tsinganos, K.; Trussoni, E., in *Disks and Outflows Around Young Stars, Proceedings of a Conference Held at Heidelberg, Germany 6 - 9 September 1994*, 361 pp., with CD-ROM, and booklet with approx. 400 pp.. Springer-Verlag Berlin Heidelberg New York. Edited by Steven Beckwith, Jakob Staude, Axel Quetz, and Antonella Natta. Also Lecture Notes in Physics, volume 465, 1996, p.312

[76] "Visible, Invisible and Dark Matter K. Tsinganos, 1996, *Orthodoxy and Natural Sciences*, Association of Greek Physicists, Savvalas, pp. 129 -- 135.

[77] "Solar and astrophysical magnetohydrodynamic flows", Tsinganos, Kanaris C., Dordrecht, Boston : Kluwer Academic Publishers, 1996.

[78] "Exact MHD Solutions for Self-Similar Flows" E. Trussoni, C. Sauty and K. Tsinganos, 1996, in *Solar and Astrophysical MHD Flows*, K. Tsinganos (ed.), Kluwer Academic Publishers, pp. 383 - 410.

[79] "Critical Points and Separatrix Characteristics in Solar and Astrophysical MHD Flows" K. Tsinganos, C. Sauty, G. Surlantzis, E. Trussoni and J. Contopoulos 1996, in *Solar and Astrophysical MHD Flows*, K. Tsinganos (ed.), Kluwer Academic Publishers, pp. 427 - 458.

[80] "Modelling the Heliolatitudinal Gradient of the Solar Wind Parameters with Exact Hydrodynamic Solutions", J. J. G. Lima, and K. Tsinganos, 1996, in *Solar Wind 8: Proc. Eighth International Solar Wind conference*, D. Winterhalter, J.T. Gosling, S.R. Habbal, W.S. Kurth and M. Neugebauer (eds.), AIP Conference Proceedings 382, AIP Press, Woodbury, N. York, p. 489.

[81] "On the Relation of Limiting Characteristics to Critical Surfaces in Magnetohydrodynamic Flows" K. Tsinganos, C. Sauty, G. Surlantzis, E. Trussoni and J. Contopoulos 1996, *MNRAS*, 283, pp. 811 - 820.

1997

[82] "Self-similar MHD Collimated Outflows", E. Trussoni, C. Sauty and K. Tsinganos, 1997, in *Proc. of Accretion Phenomena and Related Outflows*, D.T. Wickramasinghe, G.V. Bicknell and L. Ferrario (eds.), ASP Conference Series, Vol. 121, p. 816.

[83] "An Analytical MHD Model for Solar/Stellar Winds", J.J.G. Lima, E.R. Priest and K. Tsinganos, 1997, in *The Corona and Solar Wind Near Minimum Activity*, 5th SOHO Workshop, ESA SP-404, 521 - 526.

[84] "Time-dependent simulations of the solar & protosolar wind", Tsinganos, K.; Bogovalov, S., *Joint European and National Astronomical Meeting, JENAM-97. 6th European and 3rd Hellenic Astronomical Conference*, held in Thessaloniki, Greece, 2-5 July, 1997, Meeting Abstract, p. 59.

[85] "Numerical studies of the magnetocentrifugal acceleration and collimation of cosmic winds/jets", Tsinganos, K.; Bogovalov, S., *Joint European and National*

Astronomical Meeting, JENAM-97. 6th European and 3rd Hellenic Astronomical Conference, held in Thessaloniki, Greece, 2-5 July, 1997, Meeting Abstract, p. 113.

[86] "Criteria for the collimation of winds into jets", Sauty, C.; Tsinganos, K.; Trussoni, E., *Joint European and National Astronomical Meeting, JENAM-97. 6th European and 3rd Hellenic Astronomical Conference*, held in Thessaloniki, Greece, 2-5 July, 1997, Meeting Abstract, p. 161.

[87] "On the structural stability of astrophysical jets", Vlahakis, N.; Tsinganos, K., *Joint European and National Astronomical Meeting, JENAM-97. 6th European and 3rd Hellenic Astronomical Conference*, held in Thessaloniki, Greece, 2-5 July, 1997, Meeting Abstract, p. 172.

[88] Book Review: Solar and astrophysical magnetohydrodynamic flows, Kluwer, 1996, Tsinganos, K. C., *Solar physics*, vol. 173, no. 1, p. 203 (1997)

[89] Book Review: Solar and astrophysical magnetohydrodynamic flows, Kluwer, 1996, Tsinganos, K. C., *Space science reviews*, vol. 80, no. 3-4, p. 498 (1997)

[90] Book Review: Solar and astrophysical magnetohydrodynamic flows, Kluwer, 1996, Tsinganos, K. C., *The Observatory*, vol. 117, no. 1137, p. 116 (1997)

[91] "Analytical Studies of Collimated Astrophysical Winds. IV. Rotating Collimated MHD Flows", E. Trussoni, K. Tsinganos and C. Sauty, 1997, *Astronomy and Astrophysics*, 325, pp. 1099 -- 1114.

[92] "On the Topological Stability of Astrophysical Jets", N. Vlahakis and K. Tsinganos, 1997, *MNRAS*, 292, pp. 591 -- 600.

1998

[93] "On the Oscillatory Collimation of Astrophysical Jets", K. Tsinganos and N. Vlahakis, 1998, in *Astrophysical Jets: Open Problems*, S. Massaglia and G. Bodo (eds.), Gordon and Breach Science Publishers, pp 43 - 51.

[94] "Collimation Criteria in Stellar Outflows: from Jets to Winds", C. Sauty, E. Trussoni and K. Tsinganos 1998, in *Astrophysical Jets: Open Problems*, S. Massaglia and G. Bodo (eds.), Gordon and Breach Science Publishers, pp 53 - 60.

[95] "MHD Models for Stellar Winds", C. Sauty, K. Tsinganos, E. Trussoni, 1998, in *The Non-Sleeping Universe*, T. Lago, A. Blanchard (eds.), Kluwer, Dordrecht.

[96] "The Solar Wind Modelled by Exact MHD Solutions", J.J.G. Lima and K. Tsinganos, 1998, in *Cyclical Variability in Stellar Winds*, Proceedings of the ESO Workshop held at Garching, Germany, 14-17 October 1997. Edited by Lex Kaper and Alexander W. Fullerton. Publisher: Berlin, New York: Springer-Verlag, 1998. ESO Astrophysics Symposia. ISBN: 354064802X, p.273 - 277

[97] "Systematic Construction of Exact MHD Models of Astrophysical Winds and Jets", N. Vlahakis and K. Tsinganos, 1998, *MNRAS*, 298(3), 777 -- 789.

1999

[98] "Criteria for the Collimation of Winds into Jets", C. Sauty, K. Tsinganos, E. Trussoni, 1999, in Proc. Int. Conf. JENAM97, AAT, 18(3), 463 - 479.

[99] "Steady MHD Solutions for Collimated Winds", E. Trussoni, C. Sauty, K. Tsinganos and N. Vlahakis, 1998, in VII International Plasma Astrophysics and Space Physics Conference, W.I. Axford, E. Marsch, V. Vasyliunas, J. Buechner, (eds.), *Astrophysics and Space Science*, 264, 183 - 194.

[100] "On the Magnetic Acceleration and Collimation of Astrophysical Outflows", S. Bogovalov and K. Tsinganos, 1999, *MNRAS*, 305, 211 - 224.

[101] "Nonradial and Nonpolytropic Astrophysical Outflows. IV. Magnetic or Thermal Collimation of Winds into Jets ?" C. Sauty, K. Tsinganos and E. Trussoni, 1999, *Astronomy & Astrophysics*, 348, 327 - 349.

[102] "A Class of Exact MHD Models for Astrophysical Jets", N. Vlahakis and K. Tsinganos, 1999, *MNRAS*, 307, 279 - 292.

[103] "The Radial and Angular Variation of Electron Density in the Solar Corona", P.T. Gallagher, M. Mathioudakis, F.P. Keenan, K.J.H. Phillips, K. Tsinganos, 1999, *Astrophysical Journal Letters*, 524, L133.

2000

[104] "Magnetic Collimation of the Solar and Stellar Winds", K. Tsinganos and S. Bogovalov, 2000, *Astronomy and Astrophysics*, 356, pp. 989 - 1002.

[105] "A Disk-wind Model with Correct Crossing of all MHD Critical Surfaces", N. Vlahakis, K. Tsinganos, C. Sauty, E. Trussoni, 2000, *MNRAS*, 318(2), pp. 417 - 428.

[106] "The recent high state of the BL Lac object AO 0235 and cross-correlation between optical and radio bands", M. Roy, I.E. Papadakis, E. Ramos-Colon, R. Sambruna, K. Tsinganos, J. Papamastorakis and M. Kafatos, 2000, *Astrophysical Journal*, 545, pp. 758 - 771.

[107] "The recent high state of the BL Lac object AO 0235 and cross-correlation between optical and radio bands", M. Roy, I.E. Papadakis, E. Ramos-Colon, R. Sambruna, K. Tsinganos, J. Papamastorakis and M. Kafatos, 2000, *Astrophysical Journal*, 545, pp. 758 - 771.

2001

[108] "MHD disk-wind solutions crossing all singularities", E. Trussoni, N. Vlahakis, K. Tsinganos and C. Sauty, 2002, in *Particles and Fields in Radio Galaxies*, ASP Conference Series, Vol. 250, Edited by Robert A. Laing and Katherine M. Blundell, ISBN: 1-58381-090-0, San Francisco: Astronomical Society of the Pacific, 2001, p. 32.

[109] "MHD Modelling of Astrophysical Jets" K. Tsinganos, E. Trussoni, C. Sauty and N. Vlahakis, 2001, in *AGN in their Cosmic Environment*, B. Rocca-Volmerange and H. Sol (eds.), EAS Publication Series Vol 1, 2001 pp. 63 - 74.

[110] "The Physics of Plasma Outflows", S. Bogovalov and K. Tsinganos, in the *Neutron Star - Black Hole Connection*, Proceedings of NATO Advanced Study Institute, Elounda, Crete, Greece, Edited by Chryssa Kouveliotou, Joseph Ventura, and Ed Van den Heuvel, Dordrecht: Kluwer Academic Publishers, 2001, NATO science series C: Mathematical and Physical sciences, Vol. 567. ISBN 1402002041, p. 307.

[111] "MHD Modelling of Space Weather Drivers", K. Tsinganos, in *Space Storms and Space Weather Hazards*, J. Daglis (ed.), Kluwer Academic Publishers, 2001, pp 401 - 418.

[112] "On a MHD classification of AGN", K. Tsinganos, C. Sauty and E. Trussoni, 2001, in *High Energy Gamma-Ray Astronomy*, F.A. Aharonian and H. Volk (eds.), AIP Conference Proceedings, Vol. 558, pp. 299 - 311.

[113] "An Analytical MHD Model for Solar/Stellar Winds with Latitudinal dependences obtained using a separation of the variables", J.J.G. Lima, E.R. Priest and K. Tsinganos, 2001, *Astronomy & Astrophysics*, 371, pp. 240 - 249.

[114] "Magnetically Collimated Jets with High Mass Flux", S. Bogovalov and K. Tsinganos, 2001, *MNRAS*, 325, pp. 249 - 256.

[115] "Magnetic collimation of relativistic jets", Bogovalov, S.; Tsinganos, K. *Astronomical & Astrophysical Transactions*, vol. 20, issue 2, pp. 303-309

[116] "Application of an Analytical MHD Model with Latitudinal Dependences to the Solar Wind", J.J.G. Lima, C. Sauty, N. Iro, K. Tsinganos, E.R. Priest, 2001, in proceedings of *First Solar Orbiter Workshop*, 14 - 18 May 2001, Puerto de la Cruz, Tenerife, Spain, eds. B. Battrick & H. Sawaya-Lacoste, ESA SP-493, pp. 269 - 273

[117] "Systematic Construction of Exact Magnetohydrodynamic Models for Solar Coronal Structures and an Application to Modelling a Coronal Loop", Petrie, G.; Vlahakis, N.; Tsinganos, K., in *5th Hellenic Astronomical Conference*, held 20-22 September, 2001 in Crete, Greece. Online at <http://www.astro.auth.gr/elaset/helasmtg/2001/proceedings.htm>, p. 42.1

2002

[118] "The Whole Earth Blazar Telescope and the BL Lac Campaign 2000", C.M. Raiteri, M. Villata, O.M. Kurtanidze, M.C. Nikolashvili, M.A. Ibrahimov, I.E. Papadakis, K. Tsinganos, et al., 2002, in *Blazars Astrophysics with BeppoSax and other Observatories*, Proceedings of the international workshop, December 10-11, 2001, ASI Science Data Center, ESA-ESRIN, Frascati, Italy, Edited by Paolo Giommi, Enrico Massaro, Giorgio Palumbo. ESA-ESRIN, 2002. p. 219, (2002).

[119] "Jet Formation and Collimation in AGN and μ -Quasars", C. Sauty, K. Tsinganos and E. Trussoni, 2002, in *Relativistic Flows in Astrophysics*, A.W. Guthman, M. Georgantopoulos, A. Marcowith and K. Manolakou. (eds.), Springer Verlag, Lecture Notes in Physics, Vol. 589, pp. 41 - 65.

[120] "The Whole Earth Blazar Telescope (WEBT)", M. Villata, C.M. Raiteri, G. Tosti, S. Ciprini, M.A. Ibrahimov, O.M. Kurtanidze, E. Massaro, J.R. Mattox, R. Nesci, M.C. Nikolashvili, L. Ostorero, I.E. Papadakis, T.O. Sadibekova, A. Sillanpaa, L. O. Takalo, K. Tsinganos, et al., 2002, in *Mem. Soc. Astron. Ital.*, 73, 1191-1192

[121] "Systematic Construction of Exact MHD Models for Solar Coronal Structures and an Application to Modelling a Coronal Loop", G. Petrie, N. Vlahakis, K. Tsinganos, 2002, *Astronomy and Astrophysics*, Vol. 382, pp. 1081 - 1092.

[122] "On cosmical plasma outflows in winds, jets, gamma ray bursts, etc", Tsinganos, K.,

[123] "Nonradial and nonpolytropic astrophysical outflows. V. Acceleration and collimation of self-similar winds", C. Sauty, K. Trussoni, K. Tsinganos, 2002, *Astronomy and Astrophysics*, 389, pp. 1068 - 1085.

[124] "The WEBT BL Lac Campaign 2000", M. Villata, C.M. Raiteri, O.M. Kurtanidze, M.C. Nikolashvili, M.A. Ibrahimov, I.E. Papadakis, K. Tsinganos, et al., 2002, *Astronomy and Astrophysics*, 390, pp. 407-421.

[125] "Exact 2D MHD modelling for coronal loops observed with TRACE and CDS including compressible flow and heating", G. Petrie, C. Gontikakis, H. Dara and K. Tsinganos, 2002, in Proc. *SOLMAG: Magnetic Coupling of the Solar Atmosphere*, Euroconference and IAU Colloquium 188, Santorini, Greece, 11-15 June 2002, ESA SP-505, ISBN 92-9092-815-8, pp. 149-152.

[126] "Observing blazars with the Whole Earth Blazar Telescope", Villata, M.; Raiteri, C. M.; Kurtanidze, O. M.; Nikolashvili, M. G.; Ibrahimov, M. A.; Papadakis, I. E.; Tsinganos, K.; Sadakane, K.; Okada, N.; Takalo, L. O.; Sillanpaa, A.; Tosti, G.; Ciprini, S.; Frasca, A.; Marilli, E.; Robb, R. M.; Noble, J. C.; Jorstad, S. G.; Hagen-Thorn, V. A.; Larionov, V. M.; Nesci, R.; Maesano, M.; Schwartz, R. D.; Basler, J.; Gorham, P. W.; Iwamatsu, H.; Kato, T.; Pullen, C.; Benetez, E.; de Diego, J. A.; Moilanen, M.; Oksanen, A.; Rodriguez, D.; Sadun, A. C.; Kelly, M.; Carini, M. T.; Miller, H. R.; Catalano, S.; Dultzin-Hacyan, D.; Fan, J. H.; Ishioka, R.; Karttunen, H.; Keinonen, P.; Kudryavtseva, N. A.; Lainela, M.; Lanteri, L.; Larionova, E. G.; Matsumoto, K.; Mattox, J. R.; Montagni, F.; Nucciarelli, G.; Ostorero, L.; Papamastorakis, J.; Pasanen, M.; Sobrito, G.; Uemura, M., in *Inflows, Outflows and Reprocessing around Black Holes*, Proceedings of the 5th Italian AGN Meeting, held in Como, Italy, June 11-14, 2002, Ed.: I. Cagnoni, <http://www.unico.it/ilaria/AGN5/proceedings.html>, p.152.

[127] "Exact 2D MHD modelling of coronal loops observed with TRACE and CDS including compressible flow and heating", Petrie, G. J. D.; Gontikakis, C.; Dara, H.; Tsinganos, K. 2002, in: *Solar variability: from core to outer frontiers*, Ed. A. Wilson, *ESA SP-506*, Vol. 2, Noordwijk: ESA Publications Division, ISBN 92-9092-816-6, 2002, pp. 713 - 716

[128] "Magnetic Collimation of Relativistic Outflows in Jets with a High Mass Flux", K. Tsinganos and S. Bogovalov, 2002, *MNRAS*, Vol. 337, pp. 553 - 558.

2003

[129] "Star Driven Models of Jets", C. Sauty, K. Tsinganos, E. Trussoni, and Z. Meliani, 2003, *Astrophysics and Space Science*, 287, Issue 1, pp. 25-30

[130] "Collimation of astrophysical MHD outflows", K. Tsinganos, N. Vlahakis, S. Bogovalov, C. Sauty, E. Trussoni and J.J.G. Lima, 2003, *Astrophysics and Space Science*, 287, Issue 1, p. 103-108

[131] "On a MHD Classification of AGN Jets", C. Sauty, K. Tsinganos and E. Trussoni, 2002, in Proc. of *Active Galactic Nuclei: from Central Engine to Host Galaxy*, mtg held in Meudon, Paris, 23-27 July 2002, S. Collin, F. Combes and I. Shlosman (eds.), ASP Conference Series, Vol. 290, p. 355.

[132] "The Whole Earth Blazar telescope on BL", Villata, M.; Raiteri, C. M.; Kurtanidze, O. M.; Nikolashvili, M. G.; Ibrahimov, M. A.; Papadakis, I. E.; Tsinganos, K.; Sadakane, K.; Okada, N.; Takalo, L. O.; Sillanpaa, A.; Tosti, G.; Ciprini, S.; Frasca, A.; Marilli, E.; Robb, R. M.; Noble, J. C.; Jorstad, S. G.; Hagen-Thorn, V. A.; Larionov, V. M.; Nesci, R.; Maesano, M.; Schwartz, R. D.; Basler, J.; Gorham, P. W.; Iwamatsu, H.; Kato, T.; Pullen, C.; Benítez, E.; de Diego, J. A.; Moilanen, M.; Oksanen, A.; Rodriguez, D.; Sadun, A. C.; Kelly, M.; Carini, M. T.; Miller, H. R.; Catalano, S.; Dultzin-Hacyan, D.; Fan, J. H.; Ishioka, R.; Karttunen, H.; Keinonen, P.; Kudryavtseva, N. A.; Lainela, M.; Lanteri, L.; Larionova, E. G.; Matsumoto, K.; Mattox, J. R.; Montagni, F.; Nucciarelli, G.; Ostorero, L.; Papamastorakis, J.; Pasanen, M.; Sobrito, G.; Uemura, M., in *High Energy Blazar Astronomy*, ASP Conference Proceedings, Vol. 299, held 17-21 June 2002 at Tuorla Observatory, Piikkio, Finland. Edited by Leo O. Takalo and Esko Valtaoja. ISBN: 1-58381-146-X, 2003., p. 221

[133] "2D MHD modelling of compressible and heated coronal loops obtained via a nonlinear separation of variables and compared to TRACE and SoHO observations", G. Petrie, C. Gontikakis, H. Dara, K. Tsinganos and M. Aschwanden, 2003, *Astronomy and Astrophysics*, 409, pp. 1065-1083

[134] "Coordinated Multiwavelength Observations of BL Lacertae in 2000", Buttcher, M.; Marscher, A. P.; Ravasio, M.; Villata, M.; Raiteri, C. M.; Aller, H. D.; Aller, M. F.; Terzsranta, H.; Mang, O.; Tagliaferri, G.; Tsinganos, K, et al, 2003, *Astrophysical Journal*, Volume 596, Issue 2, pp. 847-859

2004

[135] "Comparing 3D observations and magnetic field extrapolation for helicity budget, coronal physics understanding and space weather forecasting", Portier-

Fozzani, F., Gontikakis, C., Dara, H. C., Tsinganos, K., *35th COSPAR Scientific Assembly* Held 18 - 25 July 2004, Paris, France, p. 2683

[136] "Study of a Solar Active Region Loop Using EUV Spectra", Gontikakis, C., Petrie, G. J. D., Dara, H. C., Tsinganos, K., *Hellenic Astronomical Society: Proceedings of the Sixth Astronomical Conference*, held at Penteli, Athens, 15-17 September, 2003. Edited by Paul Laskarides. Published by the Editing Office of the University of Athens, Athens, Greece, 2004, p. 25

[137] "2D MHD Modelling of Heated Coronal Loops Compared to TRACE Observations", Petrie, G. J. D., Gontikakis, C., Dara, H. C., Tsinganos, K., Aschwanden, M. J. *Hellenic Astronomical Society: Proceedings of the Sixth Astronomical Conference*, held at Penteli, Athens, 15-17 September, 2003. Edited by Paul Laskarides. Published by the Editing Office of the University of Athens, Athens, Greece, 2004, p. 31

[138] "MHD Outflow Theories. Applications to Jets from Young Stellar Objects", Sauty, C., Tsinganos, K., Trussoni, E., *Hellenic Astronomical Society: Proceedings of the Sixth Astronomical Conference*, held at Penteli, Athens, 15-17 September, 2003. Edited by Paul Laskarides. Published by the Editing Office of the University of Athens, Athens, Greece, 2004, p. 101

[139] "Shock Formation in Relativistic Jets", Tsinganos, K., Bogovalov, S., *Hellenic Astronomical Society: Proceedings of the Sixth Astronomical Conference*, held at Penteli, Athens, 15-17 September, 2003. Edited by Paul Laskarides. Published by the Editing Office of the University of Athens, Athens, Greece, 2004, p. 143

[140] "Study of Nonrelativistic and Relativistic MHD Jets", Lazaridis, M., Sauty, C., Vlahakis, N., Tsinganos, K., *Hellenic Astronomical Society: Proceedings of the Sixth Astronomical Conference*, held at Penteli, Athens, 15-17 September, 2003. Edited by Paul Laskarides. Published by the Editing Office of the University of Athens, Athens, Greece, 2004, p. 175

[141] "Compressible 2D MHD modelling of prominence dips", Petrie, G. J. D.; Tsinganos, K.; Neukirch, T., eprint arXiv:astro-ph/0402637

[142] Nonradial and Nonpolytropic Astrophysical Outflows. VI. Overpressured winds and jets, C. Sauty, E. Trussoni and K. Tsinganos, 2004, *Astronomy and Astrophysics*, Vol. 421, pp. 797 - 809.

[143] "Steady and time-dependent modelling of MHD jets", K. Tsinganos, N. Vlahakis, S. Bogovalov, C. Sauty and E. Trussoni, 2004, *Astrophysics and Space Science*, v. 293, Issue 1, p. 55-66

[144] "MHD outflows from hot coronae", C. Sauty, Z. Meliani, E. Trussoni and K. Tsinganos, 2004, *Astrophysics and Space Science*, v. 293, Issue 1, p. 75-82.

[145] "Relativistic Parker winds with variable effective polytropic index", Z. Meliani, C. Sauty, K. Tsinganos and N. Vlahakis, 2004, *Astronomy and Astrophysics*, v.425.

2005

[146] "Steady 2D prominence-like solutions of the MHD Equations with Field-aligned Compressible Flow", G.J.D. Petrie, K. Tsinganos and T. Neukirch 2005, *Astronomy and Astrophysics*, v.429, pp. 1081-1092

[147] "Magnetic collimation of the relativistic jet in M87, Tsinganos, K., Bogovalov, S., in *High Energy Gamma-Ray Astronomy: 2nd International Symposium*, Proceedings of the conference held 26-30 July 2004 in Heidelberg (Germany). Edited by Felix A. Aharonian, Heinz J. Völk, and Dieter Horns. AIP Conference Proceedings, Volume 745. New York: American Institute of Physics., p.148-159

[148] "Nonradial and Nonpolytropic Astrophysical Outflows. VII. Fitting Ulysses solar wind data during minimum", C. Sauty, J.J.G. Lima, N. Iro and K. Tsinganos, 2005, *Astronomy and Astrophysics*, Volume 432, Issue 2, pp.687-698.

[149] "Shock Formation at the Magnetic Collimation of Relativistic Jets", S. Bogovalov and K. Tsinganos, 2005, *Monthly Notices of the Royal Astronomical Society*, Volume 357, Issue 47, pp. 918-928.

[150] "A solar active region loop compared with a 2D MHD model", C. Gontikakis, G.J.D. Petrie, H.C. Dara, and K. Tsinganos, 2005, *Astronomy and Astrophysics*, Volume 434, Issue 3, pp. 1155-1163

[151] "Magnetic collimation of the relativistic jet in M 87, Gracia, J., Tsinganos, K., Bogovalov, S. V. *Astronomy and Astrophysics*, Volume 442, Issue 2, November I 2005, pp.L7-L10

2006

- [152] “Nonradial and nonpolytropic astrophysical outflows. VIII. A GRMHD generalization for relativistic jets, Meliani, Z., Sauty, C., Vlahakis, N., Tsinganos, K., 2006, *Astronomy and Astrophysics*, Volume 447, Issue 3, March I, pp. 797-812
- [153] “Jet simulations extending radially self-similar magnetohydrodynamics models, Gracia, J., Vlahakis, N., Tsinganos, K., 2006, *Monthly Notices of the Royal Astronomical Society*, Volume 367, Issue 1, pp. 201-210.
- [154] “A GRMHD model for cosmical jets, Tsinganos, K., Meliani, Z., Sauty, C., Vlahakis, N., Trussoni, E. *RECENT ADVANCES IN ASTRONOMY AND ASTROPHYSICS: 7th International Conference of the Hellenic Astronomical Society*. AIP Conference Proceedings, Volume 848, pp. 560-569
- [155] “Relativistic Jet Modeling: Application to AGN, Sauty, C., Meliani, Z., Trussoni, E., Tsinganos, K., 2006, *ALBERT EINSTEIN CENTURY INTERNATIONAL CONFERENCE*. AIP Conference Proceedings, Volume 861, pp. 736-742

2007

- [156] “Theory of MHD Jets and Outflows”, Tsinganos, Kanaris, 2006, in *Jets from Young Stars*, Lecture Notes in Physics, Volume 723. ISBN 978-3-540-68033-8, Springer-Verlag Berlin Heidelberg, 2007, p. 117
- [157] “Proceedings of The Second Solar Orbiter Workshop”, Marsch, E.; Tsinganos, K.; Marsden, R.; Conroy, L.,
- [158] “SOHO Observations of a Coronal Loop Compared with a 2D MHD Loop Model”, Gontikakis, C.; Petrie, G. J. D.; Dara, H. C.; Tsinganos, K.,
- [159] “Solar wind and stellar jets, from newtonian to relativistic ones”, Sauty, C., Lima, J. J. G., Tsinganos, K., Aibeo, A., Meliani, Z., Vlahakis, N. 2006, *Fifty years of Romanian astrophysics*. AIP Conference Proceedings, Volume 895, pp. 87-96
- [160] “Modeling Jets from YSOs as Two-Component Collimated Outflows”, Tsinganos, Kanaris; Matsakos, Titos; Vlahakis, N.; Massaglia, S.; Mignone, A.; Trussoni, E., *JENAM-2007, "Our non-stable Universe"*, held 20-25 August 2007 in Yerevan, Armenia. Abstract book, p. 25
- [161] “Two-Component Jet Simulations: I. Topological Stability of the Self-Similar Solutions, Matsakos, Titos; Tsinganos, Kanaris; Vlahakis, N.; Massaglia, S.; Mignone, A.; Trussoni, E., *JENAM-2007, "Our non-stable Universe"*, held 20-25 August 2007 in Yerevan, Armenia. Abstract book, p. 27

2008

- [162] "MHD Models and Synthetic Synchrotron Maps for the Jet of M87", Gracia, J.; Bogovalov, S. V.; Tsinganos, K., 2008, *International Journal of Modern Physics D*, Volume 17, Issue 10, pp. 1687-1693
- [163] "Two-component jet simulations. I. Topological stability of analytical MHD outflow solution", Matsakos, T., Tsinganos, K., Vlahakis, N., Massaglia, S., Mignone, A., Trussoni, E., 2008, *Astronomy and Astrophysics*, Volume 477, Issue 2, January II 2008, pp. 521-533
- [164] "Resistive jet simulations extending radially self-similar magnetohydrodynamic models", 2008, Cemeljic, M., Gracia, J., Vlahakis, N., Tsinganos, K. *Monthly Notices of the Royal Astronomical Society*, Volume 389, Issue 3, pp. 1022-1032
- [165] "Stability and structure of analytical MHD jet formation models with a finite outer disk radius", Stute, M., Tsinganos, K., Vlahakis, N., Matsakos, T., Gracia, J. 2008, *Astronomy and Astrophysics*, Volume 491, Issue 2, 2008, pp. 339-351

2009

- [166] "Protostellar Jets in Context", Tsinganos Kanaris, Ray, Tom, Stute Matthias, *Astrophysics and Space Science Proceedings Series*. Berlin: Springer, 2009.
- [167] "Extending Analytical MHD Jet Formation Models with a Finite Disk Radius", Stute, Matthias, Tsinganos, Kanaris, Vlahakis, Nektarios, Matsakos, Titos, Gracia, Jose, in *Protostellar Jets in Context*, by Kanaris Tsinganos, Tom Ray, Matthias Stute. Astrophysics and Space Science Proceedings Series. Berlin: Springer, 2009., pp. 123-129
- [168] "Resistive MHD Jet Simulations with Large Resistivity", Cemeljic, Miljenko, Gracia, Jose, Vlahakis, Nektarios, Tsinganos, Kanaris, *Protostellar Jets in Context*, by Kanaris Tsinganos, Tom Ray, Matthias Stute. Astrophysics and Space Science Proceedings Series. Berlin: Springer, 2009, pp.137-141
- [169] "On the Effect of Stellar Wind Braking onto the Central Object", Sauty, Christophe, Globus, Noemie, Meliani, Zakaria, Tsinganos, Kanaris, Vlahakis, Nektarios, Trussoni, Edo, in *Protostellar Jets in Context*, by Kanaris Tsinganos, Tom Ray, Matthias Stute. Astrophysics and Space Science Proceedings Series. Berlin: Springer, 2009., pp.173-178
- [170] "Two-component Jet Simulations: Combining Analytical and Numerical Approaches", Matsakos, Titos, Massaglia, Silvano, Trussoni, Edo, Tsinganos,

Kanaris, Vlahakis, Nektarios, Sauty, Christophe, Mignone, Andrea, in *Protostellar Jets in Context*, by Kanaris Tsinganos, Tom Ray, Matthias Stute. Astrophysics and Space Science Proceedings Series. Berlin: Springer, 2009., pp. 441-446

[171] “Synthetic synchrotron emission maps from MHD models for the jet of M87”, Gracia, J., Vlahakis, N., Agudo, I., Tsinganos, K., Bogovalov, S. V. *The Astrophysical Journal*, Volume 695, Issue 1, pp. 503-510 (2009)

[172] “Two-component jet simulations. II. Combining analytical disk and stellar MHD outflow solutions”, Matsakos, T., Massaglia, S., Trussoni, E., Tsinganos, K., Vlahakis, N., Sauty, C., Mignone, A., *Astronomy and Astrophysics*, Volume 502, Issue 1, 2009, pp.217-229

[173] “Dynamics of magnetized YSO jets: Examples of results from the JETSET network”, Cabrit, S., Bocchi, M., Camenzind, M., Ciardi, A., de Colle, F., Downes, T., Ferreira, J., Frank, A., Gracia, J., Lebedev, S., Marrochino, A., Massaglia, S., Matsakos, T., O'Sullivan, J., Stehl, C., Stute, M., Suzuki-Vidal, F., Tesileanu, O., Tsinganos, K., Zanni, C., *Revista Mexicana de Astronomia y Astrofísica*, Vol. 36, pp. 171-178 (2009)

[174] “Characteristics of ULF waves observed at low latitudes and their influence on storm-time radiation belt electron enhancements”, Georgiou, M, Daglis, I. A., Balasis, G., Zesta, E., Yumoto, K., Tsinganos, K., *European Planetary Science Congress 2009*, held 14-18 September in Potsdam, Germany
<http://meetings.copernicus.org/epsc2009>, p.592

[175] “Observations and 3D MHD simulations of a solar active region jet”, Gontikakis, C., Archontis, V., Tsinganos, K., *Astronomy and Astrophysics*, Volume 506, Issue 3, 2009, pp. L45-L48

2010

[176] “Multi-spacecraft observation of a magnetic cloud”, de Lucas, Aline; Dal Lago, Alisson; Schwenn, Rainer; Clúa de Gonzalez, Alicia L.; Marsch, Eckart; Lamy, Philippe; Damé, Luc; Curdt, W.; Davila, J.; Defise, J. M.; Fineschi, S.; Heinzl, P.; Howard, R.; Kuzin, S.; Schmutz, W.; Tsinganos, K.; Turck-Chièze, S.; Zhukov, A., 38th COSPAR Scientific Assembly. Held 18-15 July 2010, in Bremen, Germany, p.6 (2010)

[177] “ASPIICS/PROBA-3: a formation flying externally-occulted giant coronagraph mission”, Lamy, Philippe; Damé, Luc; Curdt, W.; Davila, J.; Defise, J. M.; Fineschi, S.; Heinzl, P.; Howard, R.; Kuzin, S.; Schmutz, W.; Tsinganos, K.;

Turck-Chièze, S.; Zhukov, A., in 38th COSPAR Scientific Assembly. Held 18-15 July 2010, in Bremen, Germany, p.3 (2010)

[178] “MHD theory of astrophysical jets”, Tsinganos, Kanaris, in *Memorie della Societa Astronomica Italiana Supplement*, v.15, p.102 (2010)

[179] “Recurrent solar jets in active regions”, Archontis, V., Tsinganos, K., Gontikakis, C., *Astronomy and Astrophysics*, 2010, Volume 512, L2 (2010).

[180] “Comparison of synthetic maps from truncated jet-formation models with YSO jet observations”, Matthias Stute, Jose Gracia, Kanaris Tsinganos, and Nektarios Vlahakis, *Astronomy and Astrophysics*, Volume 516, id.A6, (2010).

[181] “Proceedings of the 9th International Conference of the Hellenic Astronomical Society”, 20-24 September 2009, Athens, Greece. Edited by Kanaris Tsinganos, Despina Hatzidimitriou, and Titos Matsakos. San Francisco: Astronomical Society of the Pacific, 2010.

[182] “Towards a New Formation Flying Solar Coronagraph”, K. Tsinganos et al., in *Advances in Hellenic Astronomy during the International Year of Astronomy 2010*, Publications of the Astronomical Society of the Pacific, Vol. 424, eds. K. Tsinganos, D. Hatzidimitriou, T. Matsakos, p. 15-18, (2010).

[183] “Study of a Solar Active Region Jet”, C. Gontikakis, V. Archontis and K. Tsinganos, in *Advances in Hellenic Astronomy during the International Year of Astronomy 2010*, Publications of the Astronomical Society of the Pacific, Vol. 424, eds. K. Tsinganos, D. Hatzidimitriou, T. Matsakos, p. 19-24, (2010).

[184] “Velocity Asymmetries in the Bipolar Flows of YSO Jets”, T. Matsakos, N. Vlahakis, K. Tsinganos, S. Massaglia, E. Trussoni, C. Sauty and A. Mignone, in *Advances in Hellenic Astronomy during the International Year of Astronomy 2010*, Publications of the Astronomical Society of the Pacific, Vol. 424, eds. K. Tsinganos, D. Hatzidimitriou, T. Matsakos, p. 143-148, (2010).

[185] “On the application of the Wigner-Ville distribution to the identification and analysis of Pc 5 waves events”, Georgiou, M.; Daglis, I. A.; Balasis, G.; Zesta, E.; Yumoto, K. H.; Tsinganos, K., "European Planetary Science Congress 2010, held 20-24 September in Rome, Italy. <http://meetings.copernicus.org/epsc2010>, p.923" (2010)

[186] “Relativistic spine jets from Schwarzschild black holes: Application to AGN radioloud sources”, Meliani, Z., Sauty, C., Tsinganos, K., Trussoni, E., and V. Cayatte, *Astronomy and Astrophysics, Volume 521, id.A67, 11 pp.* (2010).

2011

[187] “Modelling of T Tauri jets with low mass accretion rate”, Globus N., Sauty C., Cayatte V., Meliani Z., Lima J. J. G., Tsinganos K., Michaut C., Jets at all Scales, Proceedings of the International Astronomical Union, IAU Symposium, Volume 275, p. 408-409 (2011)

[188] “Large resistivity in numerical simulations of radially self-similar outflows“, Čemeljić, Miljenko; Vlahakis, Nektarios; Tsinganos, Kanaris, Astrophysical Dynamics: From Stars to Galaxies, Proceedings of the International Astronomical Union, IAU Symposium, Volume 271, p. 371-372 (2011)

[188] “Nonradial and nonpolytropic astrophysical outflows. IX. Modeling T Tauri jets with a low mass-accretion rate”, Sauty, C.; Meliani, Z.; Lima, J. J. G.; Tsinganos, K.; Cayatte, V.; Globus, N., *Astronomy & Astrophysics, Volume 533, id.A46, 12 pp.*

2012

[189] “STEREO and SDO observations of several solar jets”, Tsinganos, K.; Moschou, S.; Vourlidas, A., 10th Hellenic Astronomical Conference, Proceedings of the conference held at Ioannina, Greece, 5-8 September 2011. Edited by Iossif Papadakis and Anastasios Anastasiadis., pp.13-14 (2012)

[190] “On the shape of active region coronal loops observed by Hinode/EIS”, Syntelis, P.; Gontikakis, C.; Alissandrakis, C.; Georgoulis, M.; Tsinganos, K., 10th Hellenic Astronomical Conference, Proceedings of the conference held at Ioannina, Greece, 5-8 September 2011. Edited by Iossif Papadakis and Anastasios Anastasiadis., pp.14-14 (2012)

[191] “On the initiation of Coronal Mass Ejections observed by STEREO/EUVI”, Syntelis, P.; Tsinganos, K.; Vourlidas, A.; Gontikakis, C., 10th Hellenic Astronomical Conference, Proceedings of the conference held at Ioannina, Greece, 5-8 September 2011. Edited by Iossif Papadakis and Anastasios Anastasiadis., pp.14-14 (2012)

[192] “Velocity asymmetries in young stellar object jets. Intrinsic and extrinsic mechanisms”, Matsakos, T.; Vlahakis, N.; Tsinganos, K.; Karampelas, K.; Sauty, C.;

Cayatte, V.; Matt, S. P.; Massaglia, S.; Trussoni, E.; Mignone, A., *Solar Physics*, Volume 280, Issue 2, pp.475-489 (2012)

[193] “Study of the Three-Dimensional Shape and Dynamics of Coronal Loops Observed by Hinode/EIS”, Syntelis, P.; Gontikakis, C.; Georgoulis, M. K.; Alissandrakis, C. E.; Tsinganos, K., *Solar Physics*, Volume 280, Issue 2, pp.475-489 (2012)

[194] “Uncovering the Birth of a Coronal Mass Ejection from Two-Viewpoint SECCHI Observations”, Vourlidas, A.; Syntelis, P.; Tsinganos, K., *Solar Physics*, Volume 280, Issue 2, pp.509-523 (2012)

[195] “Counterrotation in Magnetocentrifugally Driven Jets and Other Winds”, Sauty, C.; Cayatte, V.; Lima, J. J. G.; Matsakos, T.; Tsinganos, K., *The Astrophysical Journal Letters*, Volume 759, Issue 1, article id. L1, 5 pp. (2012)

[196] “Magnetospheric ULF wave studies in the frame of the Swarm mission”, Balasis, G.; Daglis, I.; Georgiou, M.; Papadimitriou, C.; Zesta, E.; Haagmans, R.; Plank, G.; Tsinganos, K., *American Geophysical Union, Fall Meeting 2012*, abstract #GP51A-1316 (2014)

[197] “ULF wave activity during the 2003 Halloween superstorm: multipoint observations from CHAMP, Cluster and Geotail missions”, Balasis, G.; Daglis, I. A.; Zesta, E.; Papadimitriou, C.; Georgiou, M.; Haagmans, R.; Tsinganos, K., *Annales Geophysicae*, Volume 30, Issue 12, 2012, pp.1751-1768 (2012)

2013

[198] “Introducing the CTA concept”, Acharya, B. S., Actis M., Aghajani T., Agnetta G., Aguilar J., Aharonian, F., et al, *Astroparticle Physics*, Volume 43, p. 3-18 (2013)

[199] “ULF waves and radiation belts: earthward penetration of Pc 4-5 waves and energetic electron flux enhancements during geospace magnetic storms”, Georgiou, M.; Daglis, I.; Zesta, E.; Balasis, G.; Tsinganos, K., *EGU General Assembly 2013*, held 7-12 April, 2013 in Vienna, Austria, id. EGU2013-10454

[200] “SDO Observations of Solar Jets”, Moschou, S. P.; Tsinganos, K.; Vourlidas, A.; Archontis, V., *Solar Physics*, Volume 284, Issue 2, pp.427-438 (2013)

[201] “CTA contributions to the 33rd International Cosmic Ray Conference (ICRC2013)”, CTA Consortium, The; ; Abril, O.; Acharya, B. S.; Actis, M.;

Agnetta, G.; Aguilar, J. A.; Aharonian, F.; Ajello, M.; Akhperjanian, A.; and 1097 coauthors, eprint arXiv:1307.223 (2013)

[202] “Launching protostellar jets from finite-radius accretion disks”, Stute M., Gracia J., Vlahakis N., Tsinganos K., in Protostars and Planets VI, Heidelberg, July 15-20, 2013. Poster #1K031 (2013)

[203] “Sun-to-Earth Analysis of a Major Geoeffective Solar Eruption within the Framework of the”, Patsourakos S., Vlahos L., Georgoulis M., Tziotziou K., Nindos A., Podladchikova O., Vourlidas A., Anastasiadis A., Sandberg I., Tsinganos K., Daglis I., Hillaris A., Preka-Papadema P., Sarris M., Sarris T., in The 11th Hellenic Astronomical Conference, held 8-12 September, 2013 in Athens, Greece. Online at <http://www.helas.gr/conf/2013/>, pp.10-10 (2013)

[204] “Are counter-rotating jets possible?”, Vlahakis N., Sauty C., Cayatte V., Matsakos T., Tsinganos K., Lima J., in The 11th Hellenic Astronomical Conference, held 8-12 September, 2013 in Athens, Greece. Online at <http://www.helas.gr/conf/2013/>, pp.31-31 (2013)

[205] “Flux emergence of a non twisted magnetic flux tube”, Syntelis P., Archontis V., Gontikakis C., Tsinganos K., The 11th Hellenic Astronomical Conference, held 8-12 September, 2013 in Athens, Greece. Online at <http://www.helas.gr/conf/2013/>, pp.10-10 (2013)

[206] “YSO jet simulations: from theory to synthetic observations”, Tsinganos K., Matsakos T., Tesileanu O., Vlahakis N., Massaglia S., Mignone A., Trussoni E., Cayatte V., Stehle Ch., The 11th Hellenic Astronomical Conference, held 8-12 September, 2013 in Athens, Greece. Online at <http://www.helas.gr/conf/2013/>, pp.38-39 (2013)

[207] “The Emergence of Weakly Twisted Magnetic Fields in the Sun”, Archontis V., Hood A. W., Tsinganos K., The Astrophysical Journal, Volume 778, Issue 1, article id. 42, 15 pp. (2013)

[208] “Earthward penetration of Pc 4-5 waves and radiation belt electron enhancements during geospace magnetic storms”, Daglis, I. A.; Georgiou, M.; Zesta, E.; Balasis, G.; Tsinganos, K., American Geophysical Union, Fall Meeting 2013, abstract #SM33A-2125 (2014)

2014

[209] “Young stellar object jet models: From theory to synthetic observations”, Teşileanu O., Matsakos T., Massaglia S., Trussoni E., Mignone A., Vlahakis N., Tsinganos K., Stute M., Cayatte V., Sauty C., Stehlé C., Chièze J.-P., *Astronomy & Astrophysics*, Volume 562, id.A117, 9 pp. (2014)

[210] “3D simulations of disc winds extending radially self-similar MHD models”, Stute, M.; Gracia, J.; Vlahakis, N.; Tsinganos, K.; Mignone, A.; Massaglia, S., *Monthly Notices of the Royal Astronomical Society*, Volume 439, Issue 4, p.3641-3648

[211] “Recurrent Explosive Eruptions and the "Sigmoid-to-arcade" Transformation in the Sun Driven by Dynamical Magnetic Flux Emergence”, Archontis, V.; Hood, A. W.; Tsinganos, K., *The Astrophysical Journal Letters*, Volume 786, Issue 2, article id. L21, 5 pp. (2014)

[212] “Storm-time fingerprints of Pc 4-5 waves on energetic electron flux at geosynchronous orbit”, Georgiou, M.; Daglis, I. A.; Zesta, E.; Balasis, G.; Mann, I.; Tsinganos, K., *EGU General Assembly 2014*, held 27 April - 2 May, 2014 in Vienna, Austria, id.13929

[213] “Counter-rotation in Relativistic Magnetohydrodynamic Jets”, Cayatte, V.; Vlahakis, N.; Matsakos, T.; Lima, J. J. G.; Tsinganos, K.; Sauty, C., *The Astrophysical Journal Letters*, Volume 788, Issue 1, article id. L19, 5 pp. (2014).

[214] “Large resistivity in numerical simulations of radially self-similar outflows”, Čemeljić, M.; Vlahakis, N.; Tsinganos, K., *Monthly Notices of the Royal Astronomical Society*, Volume 442, Issue 2, p.1133-1141

[215] “ASPIICS: an externally occulted coronagraph for PROBA-3: Design evolution”, Renotte, E.; Baston, Elena C.; Bemporad, A.; Capobianco, G.; Cernica, I.; Darakchiev, R.; Denis, F.; Desselle, R.; De Vos, L.; Fineschi, S.; Focardi, M.; Górski, T.; Graczyk, R.; Halain, J.-P.; Hermans, A.; Jackson, C.; Kintziger, Ch.; Kosiec, J.; Kranitis, N.; Landini, F.; Lédl, V.; Massone, G.; Mazzoli, A.; Melich, R.; Mollet, D.; Mosdorf, M.; Nicolini, G.; Nicula, B.; Orleański, P.; Palau, M.-C.; Pancrazzi, M.; Paschalis, A.; Peresty, R.; Plesseria, J.-Y.; Rataj, M.; Romoli, M.; Thizy, C.; Thomé, M.; Tsinganos, K.; Wodnicki, R.; Walczak, T.; Zhukov, A., *Proceedings of the SPIE*, Volume 9143, id. 91432M 15 pp. (2014).

[216] “A Strategy for Short-Term Earthquake Forecasting Based on Combined Ground and Space-Based Observations”, Kafatos, M.; Papadopoulos, G. A.; Karastathis, V. K.; Minadakis, G.; Ouzounov, D.; Pulinet, S. A.; Tramutoli, V.;

Tsinganos, K., American Geophysical Union, Fall Meeting 2014, abstract #NH21C-07.

[217] “Dependence of radiation belt enhancements on the radial extent of Pc5 waves and the plasmopause location”, Georgiou, M.; Daglis, I. A.; Zesta, E.; Balasis, G.; Katsavrias, C.; Mann, I. R.; Tsinganos, K., American Geophysical Union, Fall Meeting 2014, abstract #SM23B-4221

2015

[218] “ULF waves and relativistic electron acceleration and losses from the radiation belts: A superposed epoch analysis”, Georgiou, M.; Daglis, I.; Zesta, E.; Katsavrias, C.; Balasis, G.; Mann, I.; Tsinganos, K., EGU General Assembly 2015, held 12-17 April, 2015 in Vienna, Austria. id.11425

[219] “CTA Contributions to the 34th International Cosmic Ray Conference (ICRC2015), CTA Consortium; Abchiche, A.; Abeysekara, U.; Abril, Ó.; Acero, F.; Acharya, B. S.; Actis, M.; Agnetta, G.; Aguilar, J. A.; et al, eprint arXiv:1508.05894

[220] “NELIOTA: ESA's new NEO lunar impact monitoring project with the 1.2m telescope at the National Observatory of Athens”, Bonanos, A.; Xilouris, M.; Boumis, P.; Bellas-Velidis, I.; Maroussis, A.; Dapergolas, A.; Fytsilis, A.; Charmandaris, V.; Tsiganis, K.; Tsinganos, K., IAU General Assembly, Meeting #29, id.2251039

[221] “Design status of ASPIICS, an externally occulted coronagraph for PROBA-3”, Renotte, Etienne; Alia, Andres; Bemporad, Alessandro; Bernier, Joseph; Bramanti, Cristina; Buckley, Steve; Capobianco, Gerardo; Cernica, Ileana; Dániel, Vladimir; Darakchiev, Radoslav; et al, Proceedings of the SPIE, Volume 9604, id. 96040A 15 pp. (2015)

[222] “Multi-satellite study of the excitation of Pc3 and Pc4-5 ULF waves and their penetration across the plasmopause during the 2003 Halloween superstorm”, Balasis, G.; Daglis, I. A.; Mann, I. R.; Papadimitriou, C.; Zesta, E.; Georgiou, M.; Haagmans, R.; Tsinganos, K., *Annales Geophysicae*, Volume 33, Issue 10, 2015, pp.1237-1252

[223] “Association of radiation belt electron enhancements with earthward penetration of Pc5 ULF waves: a case study of intense 2001 magnetic storms”, Georgiou, M.; Daglis, I. A.; Zesta, E.; Balasis, G.; Mann, I. R.; Katsavrias, C.; Tsinganos, K., *Annales Geophysicae*, Volume 33, Issue 11, 2015, pp.1431-1442

[224] “Emergence of non-twisted magnetic fields in the Sun: Jets and atmospheric response”, Syntelis, P.; Archontis, V.; Gontikakis, C.; Tsinganos, K., *Astronomy & Astrophysics*, Volume 584, id.A10, pp. 15

2016

[225] “The Major Geoeffective Solar Eruptions of 2012 March 7: Comprehensive Sun-to-Earth Analysis”, Patsourakos, S.; Georgoulis, M. K.; Vourlidas, A.; Nindos, A.; Sarris, T.; Anagnostopoulos, G.; Anastasiadis, A.; Chintzoglou, G.; Daglis, I. A.; Gontikakis, C.; et al, *The Astrophysical Journal*, Volume 817, Issue 1, article id. 14, 21 pp. (2016)

[226] “NELIOTA: ESA's new NEO lunar impact monitoring project with the 1.2m telescope at the National Observatory of Athens”, Bonanos, A. Z.; Xilouris, M.; Boumis, P.; Bellas-Velidis, I.; Maroussis, A.; Dapergolas, A.; Fytsilis, A.; Charmandaris, V.; Tsiganis, K.; Tsinganos, K., *Asteroids: New Observations, New Models*, Proceedings of the International Astronomical Union, IAU Symposium, Volume 318, pp. 327-329 (2016)

[227] “Modelling stellar jets with magnetospheres using as initial states analytical MHD solutions”, Todorov, P.; Matsakos, T.; Cayatte, V.; Sauty, C.; Lima, J. J. G.; Tsinganos, K., eprint arXiv:1602.08052 (2016)

[228] “The spectroscopic imprint of the pre-eruptive configuration resulting into two major coronal mass ejections”, Syntelis, P.; Gontikakis, C.; Patsourakos, S.; Tsinganos, K., *Astronomy & Astrophysics*, Volume 588, id.A16, pp. 14 (2016)

[229] “Concurrent relativistic electron enhancements and deep penetration of ULF waves into the inner magnetosphere”, Georgiou, Marina; Mann, Ian; Sibeck, David; Zesta, Eftyhia; Daglis, Ioannis A.; Balasis, Georgios; Katsavrias, Christos; Evangelolopoulos, Panagiotis; Nasi, Afroditi; Tsinganos, Kanaris, 41st COSPAR Scientific Assembly, abstracts from the meeting that was to be held 30 July - 7 August at the Istanbul Congress Center (ICC), Turkey (2016).

[230] “NELIOTA: ESA's new NEO lunar impact monitoring project with the 1.2m telescope at the National Observatory of Athens”, Bonanos, Alceste; Liakos, Alexios; Xilouris, Manolis; Boumis, Panayotis; Bellas-Velidis, Ioannis; Maroussis, Athanassios; Dapergolas, Anastasios; Fytsilis, Anastasios; Noutsopoulos, Andreas; Charmandaris, Vassilis; and 6 coauthors, *Proceedings of the SPIE*, Volume 9911, id. 991122 9 pp. (2016).

[231] “Contributions of the Cherenkov Telescope Array (CTA) to the 6th International Symposium on High-Energy Gamma-Ray Astronomy (Gamma 2016)”, CTA Consortium: Abchiche, A.; Abeyssekara, U.; Abril, Ó.; Acero, F.; Acharya, B. S.; Adams, C.; Agnetta, G.; Aharonian, F.; et al., print arXiv:1610.05151 (2016)

[232] “A pilot study of the Earthquake Precursors in the Southwest Peloponnese, Greece”, Velez, A. P.; Tsinganos, K.; Karastathis, V. K.; Kafatos, M.; Ouzounov, D.; Papadopoulos, G. A.; Tselentis, A.; Eleftheriou, G.; Mouzakiotis, E.; Gika, F.; Aspiotis, T.; Liakopoulos, S.; Voulgaris, N., American Geophysical Union, Fall General Assembly 2016, abstract #NH51C-1976 (2016).

2017

[233] “ULF wave penetration in the inner magnetosphere related to radiation belt electron acceleration and losses: Observations and model simulations”, Georgiou, Marina; Daglis, Ioannis; Zesta, Eftyhia; Sibeck, David; Fok, Mei-ching; Balasis, Georgios; Mann, Ian; Tsinganos, Kanaris, 19th EGU General Assembly, EGU2017, proceedings from the conference held 23-28 April, 2017 in Vienna, Austria., p.15863 (2017).

[234] “An integrated observational site for monitoring pre-earthquake processes in Peloponnese, Greece. Preliminary results”, Tsinganos, Kanaris; Karastathis, Vassilios K.; Kafatos, Menas; Ouzounov, Dimitar; Tselentis, Gerassimos; Papadopoulos, Gerassimos A.; Voulgaris, Nikolaos; Eleftheriou, Georgios; Mouzakiotis, Evangellos; Liakopoulos, Spyridon; Aspiotis, Theodoros; Gika, Fevronia; E Psiloglou, Basil, 19th EGU General Assembly, EGU2017, proceedings from the conference held 23-28 April, 2017 in Vienna, Austria., p.17097 (2017).

[235] “New Radon observations in Peloponnese, Greece as part of integrated monitoring system to study pre-earthquake processes”, Karastathis, Vassilios K.; Tsinganos, Kanaris; Kafatos, Menas; Eleftheriou, Georgios; Ouzounov, Dimitar; Aspiotis, Theodoros; Tselentis, Gerassimos, 19th EGU General Assembly, EGU2017, proceedings from the conference held 23-28 April, 2017 in Vienna, Austria., p. 19086 (2017).

[236] “The Hubble Catalog of Variables”, Gavras, P.; Bonanos, A. Z.; Bellas-Velidis, I.; Charmandaris, V.; Georgantopoulos, I.; Hatzidimitriou, D.; Kakalettris, G.; Karampelas, A.; Laskaris, N.; Lennon, D. J.; Moretti, M. I.; Pouliasis, E.; Sokolovsky, K.; Spetsieri, Z. T.; Tsinganos, K.; Whitmore, B. C.; Yang, M.,

Astroinformatics, Proceedings of the International Astronomical Union, IAU Symposium, Volume 325, pp. 369-372 (2017).

[237] “The Hubble Catalog of Variables”, Sokolovsky, K.; Bonanos, A.; Gavras, P.; Yang, M.; Hatzidimitriou, D.; Moretti, M. I.; Karampelas, A.; Bellas-Velidis, I.; Spetsieri, Z.; Pouliaxis, E.; Georgantopoulos, I.; Charmandaris, V.; Tsinganos, K.; Laskaris, N.; Kakaletis, G.; Nota, A.; Lennon, D.; Arviset, C.; Whitmore, B.; Budavari, T.; Downes, R.; Lubow, S.; Rest, A.; Strolger, L.; White, R., Wide-Field Variability Surveys: A 21st Century Perspective - 22nd Los Alamos Stellar Pulsation - Conference Series Meeting, San Pedro de Atacama, Chile, Edited by Catelan, M.; Gieren, W.; EPJ Web of Conferences, Volume 152, id.02005 (2017).

[238] “Recurrent CME-like Eruptions in Emerging Flux Regions. I. On the Mechanism of Eruptions”, Syntelis, P.; Archontis, V.; Tsinganos, K., The Astrophysical Journal, Volume 850, Issue 1, article id. 95, 15 pp. (2017).

2018

[239] “Hubble Catalog of Variables”, Yang, M.; Bonanos, A. Z.; Gavras, P.; Sokolovsky, K.; Hatzidimitriou, D.; Moretti, M. I.; Karampelas, A.; Bellas-Velidis, I.; Spetsieri, Z.; Pouliaxis, E.; Georgantopoulos, I.; Charmandaris, V.; Tsinganos, K.; Laskaris, N.; Kakaletis, G.; Nota, A.; Lennon, D.; Arviset, C.; Whitmore, B.; Budavari, T.; Downes, R.; Lubow, S.; Rest, A.; Strolger, L.; White, R., Proceedings of "Stellar Populations and the Distance Scale", Edited by Joseph Jensen, ASPCS. (2018).

[240] “Nonradial and nonpolytropic astrophysical outflows. X. Relativistic MHD rotating spine jets in Kerr metric”, Chantry, L.; Cayatte, V.; Sauty, C.; Vlahakis, N.; Tsinganos, K., Accepted for publication in Astronomy and Astrophysics (2018).

