

# Curriculum Vitae

Professor Kanaris C. TSINGANOS



## Institutional Addresses:



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## **Briefly:**

- Author/Co-author of 253+ scientific publications in international journals and conference proceedings (NASA ADS)
- Author/Co-author of 122+ scientific publications in refereed international journals (NASA ADS)
- Work cited in 3100+ citations with  $h=31$  (NASA ADS), 1100+ normalized citations (NASA ADS).
- Invited speaker for several 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, 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, Hellenic National Committee for Astronomy (2008 - 2010)
- National representative, ESA's Science Programm Committee (2005-2010)
- Member, 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 - )
- Director, National Observatory of Athens (2011 – 2016)
- National Contact Coordinator (NOC) for the International Astronomical Union's 100<sup>th</sup> anniversary in 2019 (IAU100).

## 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
- ❖ 1991-1991 Visiting Professor, University of Torino (Italy)
- ❖ 1992-1992 Visiting Professor, University of St-Andrews (UK)
- ❖ 1992-1992 Visiting Professor, Observatoire de Paris (France)
- ❖ 1994-1994 Visiting Professor, Universidade do Porto, Porto, (Portugal)
- ❖ 1996-1996 Visiting Professor, Katholieke Universiteit Leuven (Belgium)
- ❖ 2001- Professor of Astrophysics, 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 in 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)
- ✓ 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 2<sup>nd</sup> Symposium on Solar and Space Physics in Greece, Xanthi, April 26 -- 29, 1993
- Member of Scientific Organizing Committee of 7<sup>th</sup> 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, Cephallonia, 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, <http://www.helas.gr/helasmgt/2007/>

- 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, <http://conferences.phys.uoa.gr/jets2008/>
- Chair of Scientific Organizing Committee of the 9th International Astronomy conference of Hel.A.S., Sept. 21 - 25, 2009, Athens, Greece, <http://www.helas.gr/conf/2009/commitee.php>
- Member of the Scientific Organizing Committee of the 2nd Symposium of the Seven Wise Men of the World in Cosmology, October 2, 2015 Athens
- Co-Chair of Scientific Organizing Committee, The dynamics of star and planet formation, EWASS2016, July 6 – 8, 2016, Athens, Greece, <http://eas.unige.ch/EWASS2016/session.jsp?id=S9>

## 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 University Textbooks (in Greek)

- Introduction to Theoretical Mechanics, 470 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 (1993).
- 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 KEuros), 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](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](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 Polytropic 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.

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