

CURRICULUM VITÆ

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1 CURRICULUM VITÆ

1.1 Personal data

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1.2 Education

- University of Athens, Physics Department: degree in physics, 1990.
- University of Athens, Physics Department: PhD (April 1996).

1.3 Professional positions

1. University of Athens, Physics Department, 1991-1996: graduate student.
2. California Institute of Technology (Caltech), Solar Astronomy, January-December 1997: post-doctoral scholar.
3. University of Maryland, Astronomy Department, December 1997-August 2000: research associate.
4. University of Ioannina, Physics Department, September 2000-October 2005: lecturer.
5. University of Ioannina, Physics Department, October 2005-April 2014: assistant professor (tenured since October 2009).
6. University of Ioannina, Physics Department, April 2014-July 2021: associate professor.
7. University of Ioannina, Physics Department, July 2021-...: professor.

1.4 Commissions of trust

- Secretary of the Board of the Community of European Solar Radio Astronomers (CESRA) since 2004.
- Member of the Steering Committee of International Astronomical Union's (IAU) Division E (Sun and Heliosphere) since 2021.
- Representative of Greece in the "International Heliophysical Year" (2005-2007).
- Representative of Greece in United Nations Office for Outer Space Affairs "International Space Weather Initiative" (ISWI) since 2009.
- Director of the Section of Astrogeophysics, Physics Department, University of Ioannina (2019-2020, 2023-...).
- Director of the Laboratory of Astronomy of the Section of Astrogeophysics, Physics Department, University of Ioannina since 2021.

1.5 Distinctions

- I was one of the recipients of NASA’s Group Achievement Award “for outstanding, proactive teamwork that dramatically increased the scope and volume of data returned by Parker Solar Probe and demonstrably increased its science return” (2023).
- My article entitled “ALMA observations of the variability of the quiet Sun at millimeter wavelengths” (2021), *A&A*, 652, A92 (see Section 2.1.57) was selected as one of *A&A*’s highlights for volume 652.

1.6 Research interests

I am an astrophysicist by profession with an expertise in solar physics. In my research, I am interested in revealing the physics behind the phenomena. To this end, I use observations obtained in as many spectral windows as possible. The analysis of observations is followed by theoretical interpretation and modeling. My research interests cover several areas of solar physics including:

- Physical processes in the quiet Sun.
- Solar active regions.
- Weak transient activity.
- Solar flares.
- Coronal mass ejections (CMEs).
- Solar magnetic fields including magnetic helicity.
- Solar energetic particle (SEP) events.
- Space weather.

1.7 Major research accomplishments

In chronological order, my major research accomplishments are:

1. Development of an algorithm for the computation of two-dimensional maps from one-dimensional scans of the RATAN-600 radio telescope (publication 2.1.3).
2. First systematic observations of Ellerman bomb proper motions (publication 2.1.6).
3. Publication of results that indicate that the brightening of solar poles at microwaves does not originate primarily from the corona but from lower heights with temperatures below 80000 K (publication 2.1.9).
4. Development of a code that computes gyrosynchrotron emission from a flaring loop. The comparison of models with observations yields important information about the magnetic field and energetic electrons in the flaring loop (publications 2.1.10 and 2.1.18).
5. Detection, for the first time, of spatially-resolved oscillations of microwave emission from a sunspot (publication 2.1.15).
6. Study that clears up for the first time (at least partially) the discrepancies in active region magnetic helicity budget calculations that had been reported in earlier publications (publication 2.1.17).

7. Revealing the importance of magnetic helicity in eruptive events: we found, for the first time, that, statistically, the coronal helicity of active regions producing big flares associated with CMEs is larger than the coronal helicity of those producing big flares that do not have associated CMEs (publication 2.1.19).
8. Development of a code that computes the time evolution of gyrosynchrotron emission produced in a flaring loop from either isotropic or anisotropic populations of energetic electrons (publication 2.1.26).
9. Publication of a study that demonstrates the diversity of conditions that may lead to the generation of coronal shocks (publication 2.1.27).
10. Publication of results that indicate that the initiation of eruptions may not depend critically on the temporal evolution of the variation of the background magnetic field with height (publication 2.1.28).
11. Revealing the involvement of hot magnetic flux ropes in large solar eruptive events: we found, for the first time, that almost half of these events involve a hot flux rope configuration (publication 2.1.36).
12. Publication of the first study of high-resolution observations of the quiet Sun with ALMA; the results highlight the potential of ALMA for the study of the quiet chromosphere (publication 2.1.45).
13. Detection, for the first time, of a significant number of weak transient brightenings in 1.25 and 3 mm ALMA images of the quiet chromosphere (publication 2.1.57 and 2.1.49).
14. Finding the formation times of a large sample of hot magnetic flux ropes relative to the onset of major solar eruptions: in 20 out of 30 cases the flux ropes are formed well before (from ~ 50 minutes to more than 8 hours) the onset of the eruption (publication 2.1.52).
15. Calculation, for the first time, of the magnetic helicity and free magnetic energy budgets of solar jets associated with an emerging active regions. We found that jets may occasionally have a significant imprint in the evolution of helicity and free energy budgets of emerging active regions (publication 2.1.66).

1.8 Invited talks in international conferences

1. Invited talk on “The Solar Poles in Microwaves and EUV Wavelengths” in the “Baltimore-Washington Astronomers’ Meeting” (Baltimore, March 1999).
2. “Invited contribution” on “The Structure of Gyrosynchrotron Sources in Solar Flares” in CESRA’s workshop “Energy Conversion and Particle Acceleration in the Solar Corona”, Rindberg, (Germany), July 2001.
3. “Invited contribution” on “The Origin of CME Helicity” in the 10th European Solar Physics Meeting: “Solar Variability: From Core to Outer Frontiers”, Prague, September 2002, (publication 2.3.14) .
4. Invited review on “Magnetic Helicity and Coronal Mass Ejections” in the “AGU Chapman Conference on Solar Energetic Plasmas and Particles”, Turku (Finland), August 2004, (publication 2.3.23).

5. Invited review on “Flare Physics with the Nobeyama Radioheliograph and RHESSI” in the “Solar Physics with the Nobeyama Radioheliograph” conference, October 2004, (publication 2.3.27).
6. Invited review on “The Role of Magnetic Helicity in Solar Eruptions”, in the 7th Greek Astronomical Conference, Kefalonia, September 2005, (publication 2.3.24).
7. Invited review on “The Magnetic Origin of Solar Eruptions” in CESRA’s workshop: “Solar Radio Physics and the Flare-CME Relationship”, Ioannina, June 2007.
8. Invited contribution on “Observational Aspects of Radio Bursts and their CME-flare Connection” in the “Coronal Mass Ejections and Flares: New Insights with the SMESE Project” conference, Paris, March 2008.
9. Invited review on “Magnetic Helicity of Solar Active Regions” in the IAU symposium “Universal Heliophysical Processes”, Ioannina, September 2008, (publication 2.3.32).
10. Invited review on the “Radio Spectrographs in Europe” in the “Workshop on the Future of Solar Radio Astronomy in France”, Paris, June 2009.
11. Invited review on “Multi-wavelength Observations of Solar Eruptions” in the 9th Greek Astronomical Conference, Athens, September 2009.
12. Invited review on “Magnetic Helicity and Eruptive Phenomena” in the “Magnetic Helicity Thinkshop”, Beijing, October 2009.
13. Invited review on “Magnetic Helicity Ejections and Coronal Activity” in the “IAU Symposium 294: Solar and Astrophysical Dynamos and Magnetic Activity”, Beijing, August 2012 (publication 2.3.40).
14. Invited review about “Radio Emission from Solar Flares” at the XIIth Scientific Assembly of the International Association of Geomagnetism and Aeronomy (IAGA), Merida (Mexico), August 2013.
15. Invited talk on “Observations of Magnetic Helicity” in “The Solar Activity Cycle: Physical Causes and Consequences” workshop that was organized by the International Space Science Institute (ISSI) (Bern, Switzerland, November 2013).
16. Invited review on the “Properties of Solar Energetic Particle Events Inferred from their Associated Radio Emission” in the “12th Sino-Russia Workshop of Space Weather”, Zhengxiangbaiqi (China), August 2014.
17. Invited review on “The Pre-eruptive Configuration of Large Solar Events” in the “Solar Variability and its Heliospheric Effects” conference that was organized by the Balkan, Black Sea and Caspian Sea Regional Network on Space Weather Studies, Athens, November 2015.
18. I was invited to present a talk about “Cool and Hot Flux Ropes, their Helicity” in the COSPAR 41st Assembly in Istanbul (Turkey) in July 2016. My talk did not take place due to the cancellation of the whole conference.
19. Invited talk on “The Pre-eruptive Configuration of Large Solar Events” in the EGU General Assembly, Vienna (Austria), April 2017.
20. Invited talk on “Solar Physics with the Square Kilometre Array” in the 15th European Solar Physics Meeting, Budapest (Hungary), September 2017 (publication 2.1.46).

21. Invited review on “Cool and Hot Flux Ropes, their Helicity” in the COSPAR 42nd Assembly, Pasadena CA, July 2018.
22. I was invited to present a talk about “CME Flux Ropes and Space Weather” in the 17th Annual Meeting of the Asia Oceania Geosciences Society (AOGS), Hongcheon (South Korea), June-July 2020. My talk did not take place due to the cancellation of the whole conference.
23. Invited talk on “Experience with data processing from solar ALMA observations” in the Second International Workshop on Solar Imaging with ALMA, November 2021 (virtual).
24. Invited lecture entitled “Coronal observations in pre- and post-eruption evolution” in the “Solar Activity and Space Weather: Physics Behind the Process” workshop organized by the Space Weather Awareness Training Network (SWATNet), Athens, September 2022.
25. Invited talk on “Properties of the magnetic field in an MHD simulation of coronal jets” in the “Flux Emergence Workshop”, Santorini (Greece), June 2023.
26. Invited talk on “Multi-spectral studies of solar eruptions” in the IAGA/IASPEI Joint Scientific Meeting 2023, Berlin (Germany), July 2023.
27. Invited talk on “Magnetic helicity and energy budget of jet events from an emerging active region”, in the “WholeSun workshop”, Saclay (France), March 2024.

1.9 Invited lectures in advanced schools

1. Invited lecture on “Incoherent Solar Radio Emission” in the “CESRA Summer School on Solar Radio Astronomy”, Nançay (France), September 2010.
2. Invited lecture on “The Magnetic Origins of Solar Eruptions” in the “First Thales School/Workshop on Space Weather”, Portaria (Greece), February 2013.
3. Invited lecture entitled “An Introduction to the Structure of the Solar Atmosphere” in the COSPAR Capacity Building Workshop “Coronal and Interplanetary Shocks: Analysis of Data from SOHO, Wind, and e-CALLISTO”, Mekelle (Ethiopia), May 2018.
4. Invited lecture about “Solar Magnetic Fields” in the COSPAR Capacity Building Workshop “Coronal and Interplanetary Shocks: Analysis of Data from SOHO, Wind, and e-CALLISTO”, Mekelle (Ethiopia), May 2018.
5. Invited lecture about “Solar Active Regions” in the COSPAR Capacity Building Workshop “Coronal and Interplanetary Shocks: Analysis of Data from SOHO, Wind, and e-CALLISTO”, Mekelle (Ethiopia), May 2018.
6. Invited lecture on “Solar Flares (From an Observer’s Perspective)” in the COSPAR Capacity Building Workshop “Coronal and Interplanetary Shocks: Analysis of Data from SOHO, Wind, and e-CALLISTO”, Mekelle (Ethiopia), May 2018.
7. Invited lecture on “The Magnetic Origin of Solar Eruptions” in the COSPAR Capacity Building Workshop “Coronal and Interplanetary Shocks: Analysis of Data from SOHO, Wind, and e-CALLISTO”, Mekelle (Ethiopia), May 2018.
8. Invited lecture entitled “Introduction to the Radio Sun” in the “CESRA 2018 Summer School”, Brussels, September 2018.

9. Invited lecture entitled “The Sun and the solar activity: main features” in the “Iberian Space Science Summer School” organized by ISWI and SCOSTEP, July 2021 (virtual).
10. Invited lecture entitled “Magnetic Helicity: Applications in Solar Physics” in the “MHD in Astrophysics” summer school organized by the Hellenic Astronomical Society, Ioannina, September 2024.

1.10 Organization of conferences, conference sessions, and symposia

1. Co-chair (with Dr. K.-L. Klein) of the scientific organizing committee and chair of the local organizing committee of the CESRA Workshop: “Solar Radio Physics and the Flare-CME Relationship”, Ioannina, June 2007.
2. Chair of the local organizing committee of the IAU Symposium 257: “Universal Heliophysical Processes”, Ioannina, September 2008.
3. Co-convenor (with Prof. P. Gallagher) of the session on: “Solar Weather: New Results, Analysis Techniques, Forecast Tools and the Outlook for Users” in the “5th European Space Weather Week”, Brussels, November 2008.
4. Co-chair (with Dr. C. Marqué) of the scientific organizing committee of the CESRA workshop “Energy Storage and Release Through the Solar Activity Cycle -Models Meet Observations”, La Roche-en-Ardenne (Belgium), June 2010.
5. Member of the scientific organizing committee and the local organizing committee of the 10th Hellenic Astronomical Conference, Ioannina, September 2011.
6. Co-convenor (with Drs. A. Anastasiadis and G. Tsiropoula) of the session on the “Sun, Planets, and Interplanetary Medium” in the 10th Hellenic Astronomical Conference, Ioannina, September 2011.
7. Member of the scientific organizing committee of the “CESRA Workshop 2013: New Eyes Looking at Solar Activity: Challenges for Theory and Simulations”, Prague, June 2013.
8. Co-chair (with Prof. S. Patsourakos) of the scientific organizing committee and the local organizing committee of the “Multi-wavelength Studies of the Solar Atmosphere: Celebrating the Career of Costas Alissandrakis” conference, Ioannina, September 2015.
9. Member of the scientific organizing committee of the “CESRA Workshop 2016: Solar Radio Physics from the Chromosphere to Near Earth”, Orleans (France), June 2016.
10. Co-convenor (with Dr. M.K. Georgoulis) of the symposium on “Magnetic Helicity in Sun and Stars: From Dynamo Action to Eruptive Phenomena” in the “European Week of Astronomy and Space Science (EWASS) 2016”, Athens, July 2016.
11. Co-convenor (with Dr. J. Magdalenic and Prof. M. Temmer) of the session “The Role of Solar Radio Observations in Space Weather Science” in the “14th European Space Weather Week”, Ostend (Belgium), November 2017.
12. Member of the scientific organizing committee of the “CESRA Workshop 2019: The Sun and the Inner Heliosphere”, Potsdam (Germany), July 2019.

13. Co-convener (with Dr. B. Schmieder) of the session “Solar and stellar magnetic flux ropes” in the COSPAR 2022 General Assembly, Athens, July 2022.
14. Member of the scientific organizing committee of the “CESRA Workshop 2023: Radio emission from the Sun to the Earth”, Hartfield (UK), July 2023.
15. Convener of the symposium on “Solar Eruptions: Their Origin, Source Region Evolution, and Forecast Implications” in the IAGA/IASPEI Joint Scientific Meeting that will take place in Lisbon (Portugal) in August-September 2025.

1.11 Working group leader

1. Working group co-leader (with the late Dr. H. Aurass) of the working group on “Radio Pulsations as Diagnostics of Plasma Parameters in the Solar Atmosphere” in the CESRA workshop “The High Energy Corona: Waves, Eruptions and Particles”, Isle of Skye (UK), June 2004, (publication 2.3.28).
2. Working group co-leader (with Dr. B. Vršnak) of the working group on “CMEs, shock waves, and their radio propagation” in the CESRA workshop “Solar radio physics from the chromosphere to near Earth”, Orleans (France), June 2016.
3. Working group co-leader (with Dr. T.S. Bastian) of the working group on “Turbulent Corona, Radio Wave Propagation, and New Instruments/Capabilities” in the CESRA workshop “The Sun and the Inner Heliosphere”, Potsdam (Germany), July 2019.
4. Working group co-leader (with Dr. P. Zucca) of the working group on “Coronal mass ejections and associated radio emissions” in the CESRA workshop “Radio emission from the Sun to the Earth”, Hartfield (UK), July 2023.

1.12 Guest Editor

1. Guest co-editor (with Dr. C. Marqué) of a *topical issue* of *Solar Physics* journal entitled “Energy Storage and Release through the Solar Activity Cycle -Models Meet Radio Observations” which was inspired by the topics addressed in the 2010 CESRA workshop. The *topical issue* appeared as *Solar Physics* vol. 273 (Issue 2), 2011.
2. Guest co-editor (with Prof. E.P. Kontar) of a *topical issue* of *Solar Physics* journal entitled “Combined Radio and Space-based Solar Observations: from Techniques to New Results” which was inspired by the topics addressed in the 2016 CESRA workshop. The *topical issue* appeared as *Solar Physics* vol. 293, 2018.
3. Co-editor (with Prof. C.E. Alissandrakis, and Drs T.S. Bastian, and M. Shimojo) of a *research topic* of *Frontiers in Astronomy and Space Sciences* journal entitled “The Sun seen with the Atacama large mm and sub-mm array (ALMA) -first results”. The *research topic* appeared as *Frontiers in Astronomy and Space Sciences*, vol. 10, 2023.

1.13 Review of articles and proposals

- I have been regular reviewer of most international journals with an interest in solar physics, including: Astronomy and Astrophysics, Astrophysical Journal, Astrophysical Journal (Letters), Monthly Notices of the Royal Astronomical Society, Solar Physics, Journal of Atmospheric and Solar-Terrestrial Physics, New Astronomy, Advances in Space Research, Geophysical Research Letters, Journal of Geophysical Research (Space Physics), Journal of Space Weather and Space Climate, Research in Astronomy and Astrophysics, Frontiers in Astronomy and Space Sciences, Sun and Geosphere, Canadian Journal of Physics, and Scientific Reports.
- Reviewer of proposals submitted to the National Science Foundation (NSF, USA), and NASA. I have also reviewed proposals submitted to the funding agencies of Belgium, Switzerland, Mexico, Poland, and India.
- Reviewer of proposals for observing time with the Atacama Large Millimeter/sub-millimeter Array (ALMA). Proposed observing targets included the Sun (in the majority of cases) and other stars.

1.14 Successful observing proposals

Besides being a frequent user of solar data that are readily available to everybody, I have obtained observing time, after submitting peer-reviewed proposals as Principal Investigator, at the following major astronomical instruments:

- The Very Large Array.
- The optical telescopes at the Big Bear Solar Observatory.
- The ALMA.

1.15 Research grants

- Principal investigator and co-ordinator of European Union's project INTAS 01-543. The title of the project was "Study of MHD Oscillations in Solar Active Regions Using Radio Observations". The funding covered the years 2001-2004. In addition to the University of Ioannina, the institutes that participated in the project were: Ventspils International Radio Astronomy Center (Riga, Latvia), Institute of Solar and Terrestrial Physics of the Siberian Branch of the Russian Academy of Sciences (Irkutsk, Russia), Pulkovo Observatory (St. Petersburg, Russia), Special Astrophysical Observatory of the Russian Academy of Sciences (St. Petersburg and Karachevo-Cherkessia, Russia), Crimean Astrophysical Observatory (Ukraine), and Astronomy Department of the University of St. Petersburg.
- Grant from the European Union in the framework of the "Pythagoras II" program of the Greek Ministry of Education for the project "Study of Solar Eruptive Phenomena from the Photosphere to the Corona". The funding covered the years 2005-2007. The principal investigator of the project was Prof. C.E. Alissandrakis (University of Ioannina).

- Participation in European Union’s “COST ES0803: Developing space weather products and services in Europe” program. The funding covered the years 2008-2012 and the principal investigator and co-ordinator was Dr. A. Belehaki (National Observatory of Athens).
- Team leader in the “SEPServer” network which received funding from European Union’s Seventh Framework Programme (FP7) under grant agreement No 26773. The title of the project was “Data Services and Analysis Tools for Solar Energetic Particle Events and Related Electromagnetic Emissions”. The funding covered the period from November 2010 until November 2013. In addition to the University of Ioannina, the entities that participated in the project were: University of Helsinki (Finland), University of Kiel (Germany), Centre Nationale de la Recherche Scientifique (France), University of Barcelona (Spain), University of Turku (Finland), University of Oulu (Finland), University of Würzburg (Germany), National Observatory of Athens (Greece), Astrophysical Institute of Potsdam (Germany), and DH Consultancy BVBA (Belgium). The project’s principal investigator and co-ordinator was Dr. R. Vainio (then at University of Helsinki).
- Scientific Coordinator of European Union’s “Marie Curie International Re-integration Grant” project #268288 “Solar Eruptive Phenomena”, 2010-2014. The researcher in charge and beneficiary was Prof. S. Patsourakos, University of Ioannina.
- Team leader in the project “Hellenic National Network for Space Weather Research” which received funding from the “Thales” program (the funding was provided partly by the European Union and partly by Greek national funds). The funding covered the years 2012-2015. The project’s consortium consisted of the Universities of Thessaloniki, Athens, Ioannina, and Thrace, the National Observatory of Athens, and the Research Center for Astronomy and Applied Mathematics of the Academy of Athens. The project’s principal investigator and co-ordinator was Prof. L. Vlahos (University of Thessaloniki).
- I participate in the project “Space Weather Awareness Training (SWATNet)” which received funding by the European Union in the framework of the “Innovative Training Networks” of “Marie Skłodowska Curie” actions. The project started in May 2021 and will end by the end of 2025. The entities that participate in the project as beneficiaries are the University of Helsinki, Academy of Athens, Eötvös Loránd University (Hungary), KU Leuven (Belgium), University of Coimbra (Portugal), Università degli Studi di Roma Tor Vergata (Italy), Universities of Sheffield (U.K.) and Turku (Finland), as well as the Maria Curie-Skłodowska University (Poland). I am a member of the University of Ioannina team which participates as a partner in the project. The project’s principal investigator and co-ordinator is Prof. E.K.J. Kilpua (University of Helsinki).
- Team member of the project “Wholesun: Understanding the physical mechanisms behind the eruptive activity of the Sun and its stellar twins” which received funding from the European Research Council (ERC) as a Synergy Grant. The project started in 2020 and will end by mid-2026. The project’s principal investigators are: Prof. V. Archontis (University of Ioannina), Dr. A.S. Brun (corresponding principal investigator, Universities of Paris-Cité and Paris-Saclay, France), Prof. M.

Carlsson (University of Oslo, Norway), and Prof. L. Gizon (MPS and University of Göttingen, Germany).

- More than 20 travel grants for participation in international conferences and short visits to research institutes abroad.

1.16 Teaching activities

I have experience in teaching courses at both the undergraduate and graduate levels, as well as supervising graduate students (both at the MSc and PhD levels) and undergraduate research projects. I have developed three undergraduate courses of the Physics Department of the University of Ioannina: *Physics of the Planetary System*, *Space Weather*, and *Galaxies and Cosmology*. They are all advanced optional undergraduate courses. For my teaching activities I have authored as first author or co-authored as second author three books and three sets of lecture notes (see Sections 2.7-2.8).

1.16.1 Courses

1. I have been teaching the compulsory course *Differential and Integral Calculus* to the freshman students of the Physics Department of the University of Ioannina (2013-...). The course provides an introduction to single-variable calculus.
2. I taught the compulsory course *Experimental Physics I* to the freshman students of the Chemistry Department of the University of Ioannina (2010-2012). The course provided an introduction to classical mechanics.
3. I taught part of the compulsory course *Physics* to the freshman students of the Chemistry Department of the University of Ioannina (2012-2013). The course provided an introduction to both classical mechanics and electromagnetism.
4. I have been teaching the compulsory/optional¹ course *Introduction to Astrophysics* of the Physics Department of the University of Ioannina (2007-2009, 2015-...). In 2001-2004, I taught part of this course.
5. I have been teaching the optional course *Galaxies and Cosmology* of the Physics Department of the University of Ioannina (2011-...).
6. I have been teaching part of the optional course *Plasma Physics* of the Physics Department of the University of Ioannina (2022, 2024-...).
7. I taught the optional course *Physics of the Planetary System* of the Physics Department of the University of Ioannina (2005-2017).
8. I taught the optional course *Solar Physics* of the Physics Department of the University of Ioannina (2001-2005).
9. I taught the optional course *Space Weather* of the Physics Department of the University of Ioannina (2006-2009).
10. I taught the optional course *Observational Astrophysics* of the Physics Department of the University of Ioannina (2001-2005).

¹According to the Physics Department's rules, students must pass either the *Introduction to Astrophysics* course or the *Environmental Physics* course before graduation.

11. I taught the optional course *Astronomy* of the Department of Mathematics of the University of Ioannina (2011-2012, 2015-2022).
12. I taught part of the optional course *Sciences of the Earth, the Atmosphere, and Space* of the Department of Primary Education of the University of Ioannina (2001-2002).
13. I have been teaching the optional graduate course *Astrophysics* in the program of graduate studies of the Physics Department of the University of Ioannina (2002-2005, 2007-...). The course provides an advanced discussion of the physical processes that govern solar and space plasmas, with a focus on understanding the structure and dynamics of the solar atmosphere.
14. I have been teaching part of the compulsory graduate course *Experimental Physics* in the program of graduate studies of the Physics Department of the University of Ioannina (2018-...). The course familiarizes students with modern experimental techniques that are used in various research laboratories of the Physics Department. I participate in the part of the course related to the Laboratory of Astronomy (co-teaching with Prof. S. Patsourakos); in it, students learn how to search, retrieve, and analyze astronomical data, and ultimately extract basic physical quantities from them.

1.16.2 Supervision and examination of PhD and MSc students

PhD students

I have been principal supervisor of four PhD dissertations (two in progress):

- A. Kouloumvakos: “A Study of Shock Waves in the Solar Corona and the Interplanetary Space” (2013-2017). The dissertation was carried out at the Physics Department of the University of Ioannina and the degree was awarded in December 2017. Dr. Kouloumvakos is currently a staff member at the Johns Hopkins University Applied Physics Laboratory (Laurel MD, USA).
- E. Liokati: “A Study of Eruptive Events in Solar Active Regions” (2017-2023). The dissertation was carried out at the Physics Department of the University of Ioannina and the degree was awarded in December 2023. Dr. Liokati is currently working as a post-doctoral researcher at the Research Center of Astronomy and Applied Mathematics of the Academy of Athens.
- A. André-Hoffmann: “Pre-eruption Magnetic Configuration and Eruption Forecasting” (2022-..., joint degree between the University of Ioannina and the University of Sheffield, UK). The main part of this dissertation is carried out at the Physics Department of the University of Ioannina with a 9-month secondment at the University of Sheffield.
- S. Biswal: “Three-Dimensional Solar Flare Forecasting” (2022-..., joint degree between the University of Sheffield and the University of Ioannina). The main part of this dissertation is carried out at the University of Sheffield with a 9-month secondment at the University of Ioannina. Mr. Biswal’s principal supervisor at Sheffield is Prof. R. Erdélyi.

I have also been a member of the supervisory committees or examination committees for the following PhD dissertations:

- G.A. Poulipoulis: “Symmetric Equilibrium of Sheared-flow Plasmas” (Physics Department of the University of Ioannina). The degree was awarded in November 2005. I was a member of the examination committee (principal supervisor: Prof. G. Throumoulopoulos).
- G. Karathanou: “Solar Neutrinos: Reduction, Analysis, and Simulations of Spaceborne and Ground-based Observations” (Physics Department of the University of Ioannina). The degree was awarded in November 2010. I was a member of the examination committee (principal supervisor: Prof. V. Tsikoudi).
- C. Bouratzis “Fine Structure of Type IV Metric Radio Bursts from ARTEMIS-IV Multichannel Radio Spectrograph” (Physics Department of the University of Athens). The degree was awarded in October 2017. I was a member of the examination committee (principal supervisor: Prof. P. Preka-Papadema).
- A. Evangelias: “A Study of Equilibrium and Stability of Helically Symmetric Magnetized Plasmas” (Physics Department of the University of Ioannina). The degree was awarded in July 2020. I was a member of the supervisory committee (principal supervisor: Prof. G. Throumoulopoulos).
- S. Armatas: “Study of Fine Structure in Type II Radio Bursts Using Radio Spectral Observations” (Physics Department of the University of Athens). The degree was awarded in April 2021. I was a member of the examination committee (principal supervisor: Prof. P. Preka-Papadema).
- S. Stamkos: “Evolution and Propagation of Coronal Mass Ejections in the Solar Corona and Inner Heliosphere” (2021-..., Physics Department of the University of Ioannina). I am a member of the supervisory committee (principal supervisor: Prof. S. Patsourakos).
- S. Koya: “Assessment of the Near-Sun CME Magnetic Field” (2022-..., joint degree between the University of Ioannina and the Maria Curie-Sklodowska University, Lublin, Poland). I am a member of the supervisory committee (principal supervisor: Prof. S. Patsourakos).
- A. Giannis: “Numerical Simulations of Magnetic Flux Emergence in the Sun” (2023-..., Physics Department of the University of Ioannina). I am a member of the supervisory committee (principal supervisor: Prof. V. Archontis).

MSc students

I have supervised four MSc dissertations (one in progress):

- V. Tzatzakis: “Presentation of a Solar Physics Research Project to High School Students”. The dissertation was carried out at Physics Department of the University of Ioannina (graduate program of *New Technologies and Research in Teaching Physics*) and the degree was awarded in September 2007.
- E. Nikou: “A Study of the Flare-CME Spatial Relationship”. The dissertation was carried out at Physics Department of the University of Ioannina and the degree was awarded in March 2015.
- E. Liokati: “The Role of the Background Magnetic Field in Two Major Solar Eruptions”. The dissertation was carried out at Physics Department of the University of Ioannina and the degree was awarded in May 2016.

- P. Flotsiou: “Solar Gyroresonance Sources at 17 GHz and Flare Productivity”. The dissertation is carried at the Physics Department of the University of Ioannina (October 2024-...).

I have also been a member of the examination committees for the following MSc dissertations:

- K. Kostas: “Neutrino-nucleosynthesis: Detection of Astrophysical Neutrinos from Ground-based Nuclear Detectors and Study of the Response of Modern Detectors to Energy Spectra” (Physics Department of the University of Ioannina). The degree was awarded in May 2008 (supervisor: Prof. Th. Kosmas).
- D. Apostolaki: “Study of Equilibrium and Stability of Tokamak Plasma with Sheared Flow Parallel to the Magnetic Field” (Physics Department of the University of Ioannina). The degree was awarded in May 2009 (supervisor: Prof. G. Throumoulopoulos).
- G. Petroulea: “Empirical Determination of the Magnetic Field Strength of Coronal Mass Ejections in the Corona and Interplanetary Space” (Physics Department of the University of Ioannina). The degree was awarded in September 2019 (supervisor: Prof. S. Patsourakos).
- A. Giannis: “Hall Magnetohydrodynamics Equilibrium States for Fusion Plasmas via Hamiltonian Variational Principles” (Physics Department of the University of Ioannina). The degree was awarded in July 2023 (supervisor: Prof. G. Throumoulopoulos).
- E. Karantanis: “Study of Magnetic Flux Emergence in the Solar Atmosphere Using Numerical Simulations” (Physics Department of the University of Ioannina). The degree was awarded in January 2025 (supervisor: Prof. V. Archontis).

1.16.3 Supervision of undergraduate research projects

I have supervised the undergraduate research projects (undergraduate *diploma thesis*) of 15 students of the Physics Department of the University of Ioannina. The topics of the projects were in the field of solar physics.

1.17 Public outreach activities

- Part of Mr. Tzatzakis’s MSc dissertation (see the paragraph “MSc students” of Section 1.16.2) was devoted to the study of optimal ways to popularize solar physics research (with an emphasis on research using solar radio observations) to high school students.
- Talk entitled “The Sun and its atmosphere” in a one-day popular science event organized by the Greek Open University, Patras (Greece), July 2017.
- Talk entitled “The Sun, our nearest star” in the “Heron” popular science summer school for high-school students, Pyrgos of Peloponnese (Greece), August 2023.

- I serve as reviewer for a popular science book entitled “Physics of the Stars and the Sun” by Dr. I. Kontogiannis. The book (in Greek) will be published in 2025 by “Dioptra Publishers”.
- I have given public outreach talks on various astronomy-related topics to several groups of high-school students visiting the University of Ioannina.

2 PUBLICATIONS

2.1 Articles in refereed journals

As of January 2025 I have published 70 articles in refereed journals (2 of them *in press*) which, according to ADS (Google Scholar) enjoy 2410 (2987) citations with an h-index of 28 (32), respectively.

- 1) Alissandrakis, C.E., Gelfreikh, G.B., Borovik, V.N., Korzhavin, A.N., Bogod, V.M., Nindos, A., Kundu, M.R. 1993, “Spectral Observations of Active Region Sources with RATAN-600 and WSRT”, *A&A*, 270, 509.
- 2) Alissandrakis, C.E., Nindos, A., Kundu, M.R. 1993, “Evidence for Ordinary Mode Emission from Microwave Bursts”, *Sol. Phys.*, 147, 343.
- 3) Nindos, A., Alissandrakis, C.E., Gelfreikh, G.B., Borovik, V.N., Korzhavin, A.N., Bogod, V.M. 1996, “Two-Dimensional Mapping of the Sun with the RATAN-600”, *Sol. Phys.*, 165, 41.
- 4) Nindos, A., Alissandrakis, C.E., Gelfreikh, G.B., Kundu, M.R., Dere, K.P., Korzhavin, A.N., Bogod, V.M. 1996, “A Model for Active Region Emission at Centimeter Wavelengths”, *Sol. Phys.*, 166, 55.
- 5) Nindos, A., Zirin, H. 1998, “The Relation of Ca II K Features to Magnetic Field”, *Sol. Phys.*, 179, 253.
- 6) Nindos, A., Zirin, H. 1998, “Properties and Motions of Ellerman Bombs”, *Sol. Phys.*, 182, 381.
- 7) Nindos, A., Kundu, M.R., White, S.M. 1999, “A Study of Microwave-selected Coronal Transient Brightenings”, *ApJ*, 513, 983.
- 8) Kundu, M.R., Nindos, A., Raulin, J.-P., Shibasaki, K., White, S.M., Nitta, N., Shibata, K., Shimojo, M. 1999, “A Microwave Study of Coronal Ejecta”, *ApJ*, 520, 391.
- 9) Nindos, A., Kundu, M.R., White, S.M., Gary, D.E., Shibasaki, K., Dere, K.P. 1999, “Microwave and Extreme Ultraviolet Observations of Solar Polar Regions”, *ApJ*, 527, 415.
- 10) Nindos, A., White, S.M., Kundu, M.R., Gary, D.E. 2000, “Observations and Models of a Flaring Loop”, *ApJ*, 533, 1053.
- 11) Nindos, A., Kundu, M.R., White, S.M., Shibasaki, K., Gopalswamy, N. 2000, “Soft X-ray and Gyroresonance Emission Above Sunspots”, *ApJ (Suppl.)*, 130, 485.
- 12) Kundu, M.R., Nindos, A., White, S.M., Grechnev, V.V. 2001, “A Multi-wavelength Study of Three Solar Flares”, *ApJ*, 557, 880.
- 13) Kundu, M.R., Nindos, A., Vilmer, N., Klein, K.-L., Shibata, K., Ohyama, M. 2001, “Metric Radio Emission Associated with X-Ray Plasmoid Ejections”, *ApJ*, 559, 443.
- 14) Caroubalos, C., Alissandrakis, C.E., Hillaris, A., Nindos, A., Tsitsipis, P., Moussas, X., Bougeret, J.-L., Bouratzis, K., Dumas, G., Kanellakis, G., Kontogeorgos, A., Maroulis, D., Patavalis, N., Perche, C., Polygiannakis, J., Preka-Papadema, P. 2001, “ARTEMIS IV Radio Observations of the 14 July 2000 Large Solar Event”, *Sol. Phys.*, 204, 165.

- 15) Nindos, A., Alissandrakis, C.E., Gelfreikh, G.B., Bogod, V.M., Gontikakis, C. 2002, "Spatially Resolved Microwave Oscillations Above a Sunspot", *A&A*, 386, 658.
- 16) Nindos, A., Zhang, H. 2002, "Photospheric Motions and Coronal Mass Ejection Productivity", *ApJ*, 573, L133.
- 17) Nindos, A., Zhang, J., Zhang, H. 2003, "The Magnetic Helicity Budget of Solar Active Regions and Coronal Mass Ejections", *ApJ*, 594, 1033.
- 18) Kundu, M.R., Nindos, A., Grechnev, V.V. 2004, "The Configuration of Simple Short-duration Solar Microwave Bursts", *A&A*, 420, 351.
- 19) Nindos, A., Andrews, M.D. 2004, "The Association of Big Flares and Coronal Mass Ejections: What is the Role of Magnetic Helicity?", *ApJ*, 616, L175.
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- 21) Gontikakis, C., Dara, H. C., Zachariadis, Th.G., Alissandrakis, C.E., Nindos, A., Vial, J.-C., Tsiropoula, G. 2006, "Multi-wavelength Analysis of an Active Region", *Sol. Phys.*, 233, 57.
- 22) Grechnev, V.V., Kundu, M.R., Nindos, A. 2006, "A Study of Accelerated Electrons in Solar Flares Using Microwave and X-Ray Observations", *PASJ*, 58, 47.
- 23) Pariat, E., Nindos, A., Démoulin, P., Berger, M.A. 2006, "What is the Spatial Distribution of Magnetic Helicity Injected in a Solar Active Region?", *A&A*, 452, 623.
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- 25) Nindos, A., Aurass, H., Klein, K.-L., Trottet, G. 2008, "Radio Emission of Flares and Coronal Mass Ejections", *Sol. Phys.*, 253, 3.
- 26) Tzatzakis, V., Nindos, A., Alissandrakis, C.E. 2008, "A Statistical Study of Microwave Flare Morphologies", *Sol. Phys.*, 253, 79.
- 27) Nindos, A., Alissandrakis, C.E., Hillaris, A., Preka-Papadema, P. 2011, "On the Relationship of Shock Waves to Flares and Coronal Mass Ejections", *A&A*, 531, A31.
- 28) Nindos, A., Patsourakos, S., Wiegmann, T. 2012, "On the Role of the Background Overlying Magnetic Field in Solar Eruptions", *ApJ*, 748, L6.
- 29) Malandraki, O.E., Agueda, N., Papaioannou, A., Klein, K.-L., Valtonen, E., Heber, B., Dröge, W., Aurass, H., Nindos, A., Vilmer, N., Sanahuja, B., Kouloumvakos, A., Braune, S., Preka-Papadema, P., Tziotziou, K., Hamadache, C., Kiener, J., Tatischeff, V., Riihonen, E., Kartavykh, Y., Rodríguez-Gasén, R., Vainio, R. 2012, "Scientific Analysis within SEP Server -New Perspectives in Solar Energetic Particle Research: the Case Study of the 13 July 2005 Event", *Sol. Phys.*, 281, 333.
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- O., Sanahuja, B., Scherer, R., Spanier, F., Tatischeff, V., Tziotziou, K., Usoskin, I.G., Vilmer, N. 2013, “The First SEP Server Event Catalogue ~68-MeV Solar Proton Events Observed at 1 AU in 1996-2010”, *J. Space Weather Space Clim.*, 3, A12.
- 31) Miteva, R., Klein, K.-L., Samwel, S.W., Nindos, A., Kouloumvakos, A., Reid, H. 2013, “Radio Signatures of Solar Energetic Particles During the 23rd Solar Cycle”, *Cent. Eur. Astrophys. Bull.*, 37, 541.
 - 32) Papaioannou, A., Malandraki, O.E., Dresing, N., Heber, B., Klein, K.-L., Vainio, R., Rodríguez-Gasén, R., Klassen, A., Nindos, A., Heynderickx, D., Gómez-Herrero, R., Vilmer, N., Kouloumvakos, A., Mewaldt, R.A., Tziotziou, K., Tsiropoula, G. 2014, “SEP Server Catalogues of Solar Energetic Particle Events at 1 AU Based on STEREO Recordings: 2007-2012”, *A&A*, 569, A96.
 - 33) Agueda, N., Klein, K.-L., Vilmer, N., Rodríguez-Gasén, R., Malandraki, O.E., Papaioannou, A., Subirá, M., Sanahuja, B., Valtonen, E., Nindos, A., Dröge, W., Usoskin, I.G., Braune, S., Heynderickx, D., Talew, E., Vainio, R. 2014, “Release Timescales of Solar Energetic Particles in the Low Corona”, *A&A*, 570, A5.
 - 34) Pevtsov, A.A., Berger, M.A., Nindos, A., Norton, A.A., van Driel-Gesztelyi, L., 2014, “Magnetic Helicity, Tilt, and Twist”, *Space Sci. Rev.*, 186, 285.
 - 35) Kouloumvakos, A., Nindos, A., Valtonen, E., Alissandrakis, C.E., Malandraki, O., Tsitsipis, P., Kontogeorgos, A., Moussas, X., Hillaris, A. 2015, “Properties of Solar Energetic Particle Events Inferred From Their Associated Radio Emission”, *A&A* 580, A80.
 - 36) Nindos, A., Patsourakos, S., Vourlidas, A., Tagikas, C. 2015, “How Common Are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations”, *ApJ*, 808, 117.
 - 37) Alissandrakis, C.E., Nindos, A., Patsourakos, S., Kontogeorgos, A., Tsitsipis, P. 2015, “A Tiny Event Producing an Interplanetary Type III Burst”, *A&A*, 582, A52.
 - 38) Wedemeyer, S., Brajša, R., Barta, M., Hudson, H., Fleishman, G., Loukitcheva, M., Fleck, B., Kontar, E., De Pontieu, B., Tiwari, S., Kato, Y., Soler, R., Yagoubov, P., Black, J. H., Antolin, P., Gunár, S., Labrosse, N., Benz, A. O., Nindos, A., Steffen, M., Scullion, E., Doyle, J. G., Zaqarashvili, T., Hanslmeier, A., Nakariakov, V. M., Heinzl, P., Ayres, T., Karlicky, M. 2015, “SSALMON - The Solar Simulations for the Atacama Large Millimeter Observatory Network”, *Adv. Space Res.*, 56, 2679.
 - 39) Patsourakos, S., Georgoulis, M.K., Vourlidas, A., Nindos, A., Sarris, T., Anagnostopoulos, G., Anastasiadis, A., Chintzoglou, G., Daglis, I.A., Gontikakis, C., Hatzigeorgiu, N., Iliopoulos, A.C., Katsavrias, C., Kouloumvakos, A., Moraitis, K., Nieves-Chinchilla, T., Pavlos, G., Sarafopoulos, D., Syntelis, P., Tsironis, C., Tziotziou, K., Vogiatzis, I.I., Balasis, G., Georgiou, M., Karakatsanis, L.P., Malandraki, O.E., Papadimitriou, C., Odstrčil, D., Pavlos, E. G., Podlachikova, O., Sandberg, I., Turner, D.L., Xenakis, M.N., Sarris, E., Tsinganos, K., Vlahos, L. 2016, “The Major Geoeffective Solar Eruptions of 2012 March 7: Comprehensive Sun-to-Earth Analysis”, *ApJ*, 817, 14.
 - 40) Kouloumvakos, A., Patsourakos, S., Nindos, A., Vourlidas, A., Anastasiadis, A., Hillaris, A., Sandberg, I. 2016, “Multi-viewpoint Observations of a Widely-distribu-

- ted Solar Energetic Particle Event: The Role of EUV Waves and White-light Shock Signatures”, *ApJ*, 821, 31.
- 41) Wedemeyer, S., Bastian, T., Brajša, R., Hudson, H., Fleishman, G., Loukitcheva, M., Fleck, B., Kontar, E.P., De Pontieu, B., Yagoubov, P., Tiwari, S. K., Soler, R., Black, J. H., Antolin, P., Scullion, E., Gunár, S., Labrosse, N., Ludwig, H.-G., Benz, A. O., White, S.M., Hauschildt, P., Doyle, J. G., Nakariakov, V.M., Ayres, T., Heinzl, P., Karlicky, M., Van Doorselaere, T., Gary, D., Alissandrakis, C.E., Nindos, A., Solanki, S.K., Rouppe van der Voort, L., Shimojo, M., Kato, Y., Zaqarashvili, T., Perez, E., Selhorst, C.L., Barta, M. 2016, “Solar Science with the Atacama Large Millimeter/Submillimeter Array -A New View of Our Sun”, *Space Sci. Rev.*, 200, 1.
 - 42) Hillaris, A., Bouratzis, C., Nindos, A. 2016, “Interplanetary Type IV Bursts”, *Sol. Phys.*, 291, 2049.
 - 43) Alissandrakis, C.E., Koukras, A., Patsourakos, S., Nindos, A. 2017, “Evidence for Two-loop Interaction from IRIS and SDO Observations of Penumbra Brightenings”, *A&A*, 603, A95.
 - 44) Alissandrakis, C.E., Patsourakos, S., Nindos, A., Bastian, T.S. 2017, “Center-to-limb Observations of the Sun with ALMA. Implications for Solar Atmospheric Models”, *A&A*, 605, A78.
 - 45) Nindos, A., Alissandrakis, C.E., Bastian, T.S., Patsourakos, S., De Pontieu, B., Warren, H., Ayres, T., Hudson, H.S., Shimizu, T., Vial, J.-C., Wedemeyer, S., Yurchyshyn, V. 2018, “First High-resolution Look at the Quiet Sun with ALMA at 3 mm”, *A&A*, 619, L6.
 - 46) Nindos, A., Kontar, E.P., Oberoi, D. 2019, “Solar Physics with the Square Kilometre Array”, *Adv. Space Res.* 63, 1404.
 - 47) Georgoulis, M.K., Nindos, A., Zhang, H. 2019, “The Source and Engine of Coronal Mass Ejections”, *Phil. Trans. R. Soc. A*, 377, 20180094.
 - 48) Patsourakos, S., Alissandrakis, C.E., Nindos, A., Bastian, T.S. 2020, “Observations of Solar Chromospheric Oscillations at 3 mm with ALMA”, *A&A*, 638, A62.
 - 49) Nindos, A., Alissandrakis, C.E., Patsourakos, S., Bastian, T.S. 2020, “Transient Brightenings in the Quiet Sun Detected by ALMA at 3 mm”, *A&A*, 638, A62.
 - 50) Alissandrakis, C.E., Nindos, A., Bastian, T.S., Patsourakos, S. 2020, “Modeling the Quiet Sun Cell and Network Emission with ALMA”, *A&A*, 640, A57.
 - 51) Nindos, A. 2020, “Incoherent Solar Radio Emission”, *Front. Astron. Space Sci.* 7, 57.
 - 52) Nindos, A., Patsourakos, S., Vourlidas, A., Cheng, X., Zhang, J. 2020, “When Do Solar Erupting Hot Magnetic Flux Ropes Form?”, *A&A*, 642, A109.
 - 53) Patsourakos, S., Vourlidas, A., Török, T., Kliem, B., Antiochos, S.K., Archontis, V., Aulanier, G., Cheng, X., Chintzoglou, G., Georgoulis, M.K., Green, L.M., Leake, J.M., Moore, R., Nindos, A., Syntelis, P., Yardley, S.L., Yurchyshyn, V., Zhang, J. 2020, “Decoding the Pre-eruptive Magnetic Field Configurations of Coronal Mass Ejections”, *Space Sci. Rev.*, 216, 131.

- 54) Zouganelis, I., De Groof, A., Walsh, A.P., Williams, D.R., Müller, D., St Cyr, O.C., Auchere, F., et al. 2020, “The Solar Orbiter Science Activity Plan. Translating solar and heliospheric physics questions into action”, *A&A*, 642, A3.²
- 55) Moraitis, K., Patsourakos, S., Nindos, A. 2021, “Relative field line helicity of a large eruptive solar active region”, *A&A*, 649, A107.
- 56) Nindos, A., Patsourakos, S., Vourlidas, A., Liewer, P.C., Penteado, P., Hall, J.R. 2021, “Tracking solar wind flows from rapidly varying viewpoints by the Wide-field Imager for Parker Solar Probe”, *A&A*, 650, A30.
- 57) Nindos, A., Patsourakos, S., Alissandrakis, C.E., Bastian, T.S. 2021, “ALMA observations of the variability of the quiet Sun at millimeter wavelengths”, *A&A*, 652, A92. **This article was selected as one of A&A’s highlights for volume 652 (<https://www.aanda.org/2021-highlights/2296>).**
- 58) Alissandrakis, C.E., Nindos, A., Patsourakos, S., Hillaris, A. 2021, “Multiwavelength observations of a metric type-II event”, *A&A*, 654, A112.
- 59) Alissandrakis, C.E., Bastian, T.S., Nindos, A. 2022, “A first look at the submillimeter Sun with ALMA”, *A&A*, 661, L4.
- 60) Liokati, E., Nindos, A., Liu, Y. 2022, “Magnetic helicity and energy of emerging solar active regions and their eruptivity”, *A&A*, 662, A6.
- 61) Alissandrakis, C.E., Patsourakos, S., Nindos, A., Bouratzis, C., Hillaris, A. 2022, “First detection of metric emission from a solar surge”, *A&A*, 662, A14.
- 62) Nindos, A., Patsourakos, S., Jafarzadeh, S., Shimojo, M. 2022, “The dynamic chromosphere at millimeter wavelengths”, *Front. Astron. Space Sci.*, 9, 981205.
- 63) Liokati, E., Nindos, A., Georgoulis, M.K. 2022, “Magnetic helicity and free magnetic energy as tools for probing eruptions in two differently evolving solar active regions”, *A&A*, 672, A38.
- 64) Patsourakos, S., Vourlidas, A., Nindos, A. 2023, “Constraints on the variable nature of the slow solar wind with the Wide-Field Imager on board the Parker Solar Probe”, *A&A*, 676, A125.
- 65) Moraitis, K., Patsourakos, S., Nindos, A., Thalmann, J. K., Pariat, É. 2024, “Using relative field line helicity as an indicator for solar eruptivity”, *A&A*, 683, A87.
- 66) Nindos, A., Patsourakos, S., Moraitis, K., Archontis, V., Liokati, E., Georgoulis, M.K., Norton, A.A. 2024, “Magnetic helicity and energy budgets of jet events from an emerging solar active region”, *A&A*, 689, L11.
- 67) Koya, S., Patsourakos, S., Georgoulis, M.K., Nindos, A. 2024, “Assessment of the near-Sun magnetic field of the 10 March 2022 coronal mass ejection observed by Solar Orbiter”, *A&A*, 690, A233.
- 68) Biswal, S., Korsós, M.B., Georgoulis, M.K., Nindos, A., Patsourakos, S., Erdélyi, R. 2024, “Case Studies on Pre-eruptive X-class Flares using R-value in the Lower Solar Atmosphere”, *ApJ*, 974, 259.

²The author list of this paper consists of 178 names, listed alphabetically, in addition to those appearing here; one of them is mine.

- 69) Georgoulis, M.K., Yardley, S.L., Guerra, J.A., Murray, S.A., Ahmadzadeh, A., et al. 2025, “Prediction of solar energetic events impacting space weather conditions”, *Adv. Space Res.*, in press³
- 70) Bastian, T.S., Alissandrakis, C.E., Nindos, A., Shimojo, M., White, S.M. 2025, “ALMA Observations of Solar Spicules in a Polar Coronal Hole”, *ApJ*, in press.

2.2 Invited monographs

2.2.1 In refereed publications

- 1) Nindos, A. 2006, “Magnetic Helicity and Coronal Mass Ejections” in “Solar Eruptions and Energetic Particles”, *Geophysical Monograph Series*, vol. 165, ed. N. Gopalswamy, R. Mewaldt, J. Torsti (American Geophysical Union, Washington DC), p. 59.
- 2) Nindos, A. 2007, “The Magnetic Origins of CMEs”, *Asian J. Phys.*, 16, “Special Issue on Space Weather”, ed. P. Janardhan, H.O. Vats, K.N. Iyer, B.G. Anandarao, (Anita Publications, New Delhi), p. 123.
- 3) Nindos, A. 2009, “Magnetic Helicity of Solar Active Regions” in *IAU Symp.* 257, “Universal Heliophysical Processes”, ed. N. Gopalswamy and D.F. Webb (Cambridge Univ. Press, Cambridge), p. 133.
- 4) Nindos, A. 2013, “Magnetic Helicity Ejections and Coronal Activity” in *IAU Symp.* 294, “Solar and Astrophysical Dynamos and Magnetic Activity”, ed. A.G. Kosovichev, E. de Gouveia Dal Pino, Y. Yan (Cambridge Univ. Press, Cambridge), p. 519.
- 5) Nindos, A. 2020, “Incoherent Solar Radio Emission”, *Front. Astron. Space Sci.* 7, 57.

2.2.2 In non-refereed publications

- 1) Nindos, A. 2006, “Flare Physics with the Nobeyama Radioheliograph and RHESSI”, in “Solar Physics with the Nobeyama Radioheliograph, Proceedings of Nobeyama Symposium 2004”, p. 39.
- 2) Nindos, A. 2006, “The Role of Magnetic Helicity in Solar Eruptions”, in “Recent Advances in Astronomy and Astrophysics”, *AIP Conference Proceedings*, 848, 64.
- 3) Nindos, A. 2013, “The Magnetic Origin of Solar Eruptions”, *Hipparchos*, volume 2, issue 9, p. 15.

2.3 Articles in conference proceedings and abstracts⁴

- 1) Alissandrakis, C.E., Gelfreikh, G.B., Borovik, V.N., Korzhavin, A.N., Bogod, V.M., Nindos, A., Kundu, M.R. 1993, “Spectral Observations of Active Regions with the

³The author list of this paper consists of 41 names, listed alphabetically, in addition to those appearing here; one of them is mine.

⁴The catalog of Section 2.3 may not be complete.

- RATAN-600 and WSRT”, Second Greek Conference: “Solar and Space Research in Greece”, p. 402, (Xanthi, Greece).
- 2) Alissandrakis, C.E., Nindos, A., Kundu, M.R. 1993, “Evidence for Ordinary Mode Emission from Microwave Bursts”, Second Greek Conference: “Solar and Space Research in Greece”, p. 408, (Xanthi, Greece).
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