

MARIA PIA DI MAURO

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CURRICULUM VITAE

Personal data

Name and Surname: Maria Giuseppina Di Mauro (better known by the short name Maria Pia)

Nationality: Italian

Current Position: Researcher Astronomer since September 15th, 2001 for INAF -Istituto Nazionale di Astrofisica.

Previous Position: Post-doctoral position (September 1st 1999-August 31st 2001), TAC Theoretical Astrophysics Center, Institute of Physics and Astronomy, University of Aarhus, Denmark

Education

Master's Degree in Physics: July 19th 1995, University of Catania (Italy) with thesis on "Solar interior density and rotation by helioseismic data inversion" Supervisor: Prof. ■■■■■■

Ph.D programme: at the "Nicolaus Copernicus Astronomical Center" Warsaw (Poland), under the supervision of Prof. ■■■■■■ (May-July 1997), Fellowship offered by Italian Ministry of Foreign Affairs and Polish Ministry of Education

Ph.D in Physics: February 12th 1999, University of Messina (Italy), thesis "Nuclear dating of ancient buildings by thermoluminescence and high resolution gamma spectroscopy techniques", Supervisor: Prof. ■■■■■■, co-supervisor: Prof. ■■■■■■ (University of Catania)

Postdoctoral programme at the Department of Physics and Astronomy, University of British Columbia, Vancouver, Canada (June-July 1999), Fellowship offered by CNAA (Consorzio Nazionale per l'Astronomia e l'Astrofisica, Rome, Italy)

Institutional Responsibilities

2021: IAU elected member of the Commission G4 - Pulsating Stars for the period 2021-2024

2006-today: Coordinator for INAF of the Italian Asteroseismology group within HELAS European network of Helio and Asteroseismology

2019-2020: Vice-Coordinator of the Local Committee in Rome for the National Olimpiad of Astronomy, edition XVII

2017-2018: Vice-Coordinator of the Local Committee in Rome for the National Olimpiad of Astronomy, edition XVI

2016: Team Leader of the Italian team at the XXI IAO International Astronomy Olympiad, Pamporovo (Bulgaria)

2015-2016: Coordinator of the Local Committee in Rome for the National Olympic games of Astronomy, edition XIV

2006-2010: PI for INAF of HELAS (European Network in Helio- and Asteroseismology) FP6-Coordination Action, contract n. 026138, aimed at coordinating activities among European institutions that host major research group in helio- and asteroseismology.

Committees

- 2021:** ANVUR Expert Reviewer for VQR 2015-2019 the Italian evaluation of Research
- 2021:** Reviewer for proposal submitted to IAU/Office of Astronomy Development
- 2018-2019:** TAC at large for TNG (LBT, REM, HARPS) proposals period AOT 40, AOT 41, AOT42
- 2021, 2020, 2018, 2017, 2016:** Committees Member for national/regional selections of the annual Italian Astronomy Olympiad
- 2018, 2017:** Research proposals reviewer for the National Science Center, Poland (Narodowe Centrum Nauki - NCN; <http://www.ncn.gov.pl>).
- 2017:** Expert Reviewer for 'ERC Consolidator Grant - 2017' by European Research Council
- 2017:** Research grant reviewer for University of Calabria (postdoc grants)
- 2016:** ANVUR Expert Reviewer for VQR 2011-2014 the Italian evaluation of Research
- 2015:** Referee for post-doc research grant assigned by Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO Belgium).
- 2015:** Research grant reviewer for University of Calabria (postdoc grants)
- 2015:** Strategical projects reviewer for the University of Firenze, Italy
- 2015:** Review panel member for post-doc grant at INAF-IAPS Roma, on 'Outreach for Media-INAF'
- 2014:** Research grant reviewer for MIUR on SIR 2014 proposals, Italian fellowship for young researchers
- 2013:** Research grant reviewer for MIUR on FIRB (Future in Research call) Italy (fellowship for young researchers)
- 2013:** Reviewer panel member for PRIN-MIUR, Italy (funding for research proposals)
- 2012:** PhD Committee member, final exam of Isa Brandao, Universidade do Porto, Portugal
- 2012:** Research grant Reviewer for Post-doc position at INAF, Osservatorio Astronomico di Roma
- 2010:** PhD Committee member, final exam of Gulnur Dogan Department of Physics and Astronomy, University of Aarhus, DK

Tutorage

- 2019 - 2022:** Co-supervisor PhD XXXV cycle, student ██████████ on 'A synergic strategy to identify habitable exoplanets' University of Tor Vergata Roma
- 2003 - 2004:** Co-supervisor PhD student Siddig ██████████ on ' Inference of the internal structure of the stars by inversion of asteroseismic data' University of North West, Mmabatho, Southafrica, Supervisor Prof. ██████████
- 2001 - 2002:** Co-Supervisor PhD student ██████████ Dipartimento di Fisica e Astronomia, Università di Catania, relatore Prof. ██████████
- 1999:** Supervisor of the master thesis of the student ██████████, on "The Determination of the Gravitational Quadrupole Moment of the Sun" (University of Catania, July 1999)
- 1998:** Supervisor of the master thesis of the student ██████████, on "The Evolution of the solar angular momentum" (University of Catania, December 1998)

Teaching experience

- 2021:** Classes of Astronomy for students of secondary schools to participate to National Astronomy Olympiad 2021
- 2018:** Classes of Astronomy for students of secondary schools to participate to National and International Astronomy Olympiad 2018
- 2017:** Classes of Astronomy for students of secondary schools to participate to National and International Astronomy Olympiad 2018
- 09-25 Mar 2003:** Visiting Professor at University of North West, Mmabatho, Southafrica
- 01-05 Mar 2003:** Visiting professor at University of Cape Town, Southafrica. for Master in Astronomy, course on “Stellar Structure and Evolution: theory and computation”,
- Feb 2000 - May 2000:** Teaching assistant at Institute of Physics and Astronomy of the University of Aarhus, Denmark ”Stellar pulsations” course for Master in Astronomy,
- Nov 1998 - May 1999:** Temporary position at Liceo Scientifico Statale “E. Fermi”, Paternò (Catania) in Italy

Invited seminars

- 19 May 2020: Lecture on ”Helioseismology and solar pulsations” for the course of Solar Physics laurea Magistrale in Physics, University of Tor Vergata, Rome
- 5 May 2019: Lecture on ”Helio- and Asteroseismology” for the course of ’Sun and Space Climate’ laurea Magistrale in Physics, University of Tor Vergata, Rome
- 5 June 2018: Lecture on ”Helio- and Asteroseismology” for the course of ’Sun and Space Climate’ laurea Magistrale in Physics, University of Tor Vergata, Rome Tor Vergata, semestral course by Prof. ██████████
- 26 April 2017: Lecture on ”Helioseismology” for the course of ’Sun and Space Climate’ laurea Magistrale in Physics, University of Rome Tor Vergata, semestral course by Prof. ██████████
- 12 April 2016: Lecture on ”Helioseismology” for the course of ’Sun and Space Climate’ laurea Magistrale in Physics, University of Rome Tor Vergata, semestral course by Prof. ██████████
- 28 April 2016: Unveiling the hidden interior of solar-like stars in the modern era of Asteroseismology, Osservatorio Astronomico di Padova
- 27 may 2015: The golden age of Asteroseismology and progress in stellar physics, Osservatorio Astronomico di Capodimonte, Napoli 27/05/2015
- 28 April 2015: Lecture on Helioseismology for the course ’Sun and Space Climate’ laurea Magistrale in Physics, University of Rome Tor Vergata, semestral course by Prof. ██████████
- 25 May 2014: Lecture on Helioseismology for Solar Physics course at University of Tor Vergata, Roma, semestral course by Prof. ██████████
- 8 May 2012 The new Era of Helio- and Asteroseismology and progress in stellar physics, Osservatorio Astronomico di Roma (Italy)
- 30 September 2010 Helio- and Asteroseismology, where do we stand?, Osservatorio Astronomico di Arcetri (Firenze), Italy 30/09/2010
- 14 June 2007: Progress, problems and prospects in Helio- and Asteroseismology, Osservatorio Astrofisico di Catania, Italy
- 22 February 2005: Asteroseismology at glance into a star, ESO, Garching, Germany
- November 2002: Asteroseismology of solar-type stars, Osservatorio Astronomico di Roma, Italy
- 19 January 1999 Differential Rotation of the solar interior, Max Plank Institute for Astrophysics, Garching (Germany)

04 April 1997: The rotation of the Sun's core, Departement d'Astrophysique, Universite Sophia Antipolis, Nice (France), 04/04/1997

02 February 1997: The internal structure and dynamics of the Sun as deduced from helioseismic data, Dipartimento di Fisica, Università Tor Vergata, Rome, Italy

09 September 1995: Sun oscillations and data inversion, Osservatorio Astrofisico of Teramo, Italy

Organization of Conferences

- SOC, The 2nd SOLARNET meeting 'The magnetic Solar and stellar magnetic activity' Palermo, February 2-5, 2015
- Session Chair, SpaceInn 4.1 meeting 'Peak.bagging in Helio- and Asteroseismology' Tenerife, Spain, 2014
- SOC and session chair, ESF conference, The modern era of Helio- and Asteroseismology, Obergurgl, Austria, 2012
- SOC and session chair, IV HELAS conference, 'Seismological Challenges for stellar structure', Lanzarote, Spain, 2012
- Chair of the SOC, HELAS workshop 'Synergies between solar and stellar modelling', Roma, 2009
- SOC of the HELAS II conference "*Helioseismology, Asteroseismology and MHD Connections*", 20-24 August, 2007, Göttingen, (Germany)
- SOC of the Joint Discussion JD17, "*Highlights of Recent Progress in the Seismology of the Sun and Sun-like Stars*" IAU XXVI General Assembly, Aug 23, 2006, Prague
- LOC of SOHO 17, "*10 years of SOHO and beyond*" 7-12 May, 2006, Giardini Naxos (Italy)
- SOC of the workshop "*Equation of state and Phase Transition Issues in Models of Ordinary Astrophysical Matter*" 2-11 June 2004, Leiden (Netherlands)
- SOC of the Workshop "*Searching for Planets in the Habitable Zone*", Italian Partecipation to the Eddington Mission, October 17-18, 2003, Rome (Italy)
- SOC of the JD 12 "*Solar and Solar-like oscillations: insights & challenges for the Sun and Stars*", IAU XXV General Assembly , July 18-19, 2003, Sydney (Australia)
- SOC of the 2nd Eddington Workshop "*Stellar-structure and habitable planet finding*" April 9-11, 2003 Palermo, (Italy)
- LOC of the 3rd National Meeting on Italian Solar Research, Sept 30-Oct 4 2002, Vulcano (Italy)

Referee

2019-2020: Referee for Review of Modern Physics published by the American Physical Society

2001-today: Referee for scientific journals such as ApJ, A&A, MNRAS, ApSS, CoAst and several peer-reviewed conference proceedings

Editorial experience

2018-today: Review Editor for the journal 'Frontiers in Astronomy and Space Sciences' and 'Frontiers in Physics', Editorial Board of Stellar and Solar Physics

2010: Edited book: *Synergies between Solar and Stellar Modelling* 2010, Eds: Maria Pia Di Mauro, Daniela Cardini, and Marcella Marconi. Springer ISBN: 978-90-481-9197-0

Memberships of Scientific Societies

- IAU since 2000, Division C (Education, Outreach and Heritage) Division E (Sun and Heliosphere), Division G (Stars and Stellar Physics), Commission C1 (Astronomy Education and Development), Commission E1 (Solar Radiation and Structure), Commission G4 (Pulsating Stars)
- KASC, the Kepler Asteroseismic Science Consortium of the NASA space mission Kepler, since 2008 (renamed K2).
- TASC, Tess Asteroseismic Science Consortium for the NASA space mission TESS, launched 18 April 2018.
- GAPS, Global Architecture of Planetary Systems, the Italian project to investigate in the field of exoplanetary science by observing with HARPS-N
http://www.oact.inaf.it/exoit/EXO-IT/Projects/Entries/2011/12/27_GAPS.htm
- PLATO 2.0 scientific team. PLATO is an ESA space mission selected on February 2014 by ESA-SPC. Member of WP120 STELLAR PHYSICS and WP127200, Seismic Diagnostics of evolved stars.
- ARIEL scientific team for characterizing planet hosting stars. ARIEL is an ESA fourth medium-class mission scheduled for launch in 2029 dedicated to measuring the chemical composition and thermal structures of hundreds of transiting exoplanets.

Public outreach

She takes part to outreach activities of INAF including seminars, lectures organized for children, students of primary and secondary schools and general public

- 2020: Lecture online for secondary schools 'The sun our star (only in Italian)
<http://comet.iaps.inaf.it/lezioni-online/il-sole-la-nostre-stella/>
- Public event 'Occhi sulla Luna', University of Roma Tre, laboratories 'Planets in a Room' June 6th 2019 and Jan 31st 2020
- Organization of the public event 'Mercury transit', November 11th 2019, observations and lectures at University of Tor Vergata, Roma
- Organization of conferences for advertising National Olimpiad of Astronomy (10 November 2015 at University la Sapienza of Roma speaker R. Claudi; 9 November 2016 at IAPS Roma speaker F. Capaccioni; 17 November 2017 at IAPS Roma speaker R. Peron, November 2019 Enzo Pascale at University La Sapienza di Roma)
- Partecipipation to Maker Faire 2019, October 18-20 2019, Fiera di Roma, presentations of project 'Planets in a Room'
- Research Night 2019 , Invited public conference on 'The Sun our star full of life' – Matera, Nov 27th 2019 (italian city of culture for the year)
- Festival of Science, Iglesias (Cagliari, Itlay, 29 November-1January 2018, Invited Public lecture on 'The Music of Stars' and laboratories for students
- Invited Public lecture on 'The Music of Stars' at CNR-Area RM1 Montelibretti (Rome) on February 16, 2018
- Organization of the regional selection of participants to National Olympiad of Astronomy, editions 2016, 2017, 2018, 2019, 2020, 2021. Series of lectures, organization of the competitions and vice coordinator of the committee

- Partecipazione to the INAF open week (13-17 November 2017): lectures for schools and general public visiting INAF-IAPS institute
- Research's Night 2017, organized by INAF and CNR at ARTOV, Area di Ricerca di Tor Vergata (Roma)
- Public lecture on 'The Sun and Space Climate' at Circolo of Banca d'Italia, April 9th 2016
- ASTROKIDS 2014, public activities in bookshops Feltrinelli of Rome (www.facebook.com/AstroKidsRoma)
- Week of Science and Research's Night, organized by Frascati Scienza association, funded by FP7 Researcher's and Horizon 2020 Night programme (2013, 2014)
- Public press releases and interviews (mediaINAF and ANSA) for launch of CoRoT and Kepler space missions, for publications of the article Bedding et al. 2010 published on Nature in the field of Helio- and Asteroseismology and in 2020 for publication on Nature Astronomy of the article by Claplin et al. 2020

Publications

International Referred Journals

1. *"The solar activity and near-Earth solar wind connection over the last five solar cycles"*
Reda R., Giovannelli L., Alberti T., Berrilli F., Bertello L., Del Moro D., Di Mauro M. P.,
Giobbi P., Penza V.
2021, submitted to **MNRAS**
2. *"Astero-seismology of red-giant stars"*
Pipers F. P., Di Mauro M. P., Ventura R.
2021, accepted for publication in **A&A**
3. *"The GAPS Programme with HARPS-N at TNG. XXXI. The WASP-33 system revisited with HARPS-N"*
Borsa F., Lanza A. F., Raspantini I., Rainer M., Fossati L., Brogi M., Di Mauro M. P., Gratton R., Pino L., Benatti S., Bignamini A., Bonomo A. S., Claudi R., Esposito M., Frustagli G., Maggio A., Maldonado J., Mancini L., Micela G., Nascimbeni V., Poretti E., Scandariato G., Sicilia D., Sozzetti A., Boschin W., Cosentino R., Covino E., Desidera S., Di Fabrizio L., Fiorenzano A. F. M., Harutyunyan A., Knapic C., Molinari E., Pagano, I., Pedani M., Piotto, G.
2021 **A&A** 653A, 104
4. *"The GAPS programme at TNG. XXVII. Reassessment of a young planetary system with HARPS-N: is the hot Jupiter V830 Tau b really there?"*
Damasso M., Lanza A. F., Benatti S., Rajpaul V. M., Mallonn M., Desidera S.; Biazzo K.; D'Orazi V.; Malavolta L.; Nardiello D.; Rainer M.; Borsa F.; Affer L.; Bignamini, A.; Bonomo, A. S.; Carleo, I.; Claudi, R.; Cosentino, R.; Covino, E.; Giacobbe, P.; Gratton, R.; Harutyunyan, A.; Knapic, C.; Leto, G.; Maggio, A.; Maldonado, J.; Mancini, L.; Micela, G.; Molinari, E.; Nascimbeni, V.; Pagano, I.; Piotto, G.; Poretti, E.; Scandariato, G.; Sozzetti, A.; Capuzzo Dolcetta, R.; Di Mauro M. P., Carosati D., Fiorenzano A., Frustagli G., Pedani M., Pinamonti M., Stoev H., Turrini D.
2020, **A&A**, 642A, 133
5. *"The GAPS programme at TNG. XXIII. HD 164922 d: close-in super-Earth discovered with HARPS-N in a system with a long-period Saturn mass companion"*
Benatti S., Damasso M., Desidera S., Marzari F., Biazzo K., Claudi R., Di Mauro M. P., Lanza A. F., Pinamonti M., Barbato D., Malavolta L., Poretti E., Sozzetti A., Affer L., Bignamini A., Bonomo A. S., Borsa F., Brogi M., Bruno G., Carleo I., Cosentino R., Covino E., Frustagli G., Giacobbe P., Gonzalez M., Gratton R., Harutyunyan A., Knapic C., Leto G., Lodi M., Maggio A., Maldonado J., Mancini L., Martinez Fiorenzano A., Micela G., Molinari E., Molinaro M., Nardiello D., Nascimbeni V., Pagano I., Pedani M., Piotto G., Rainer M., Scandariato, G.
2020, **A&A** 639, pp. A50-A73
6. *"Spectroscopic and Astero-seismic Analysis of the Secondary Clump Red Giant HD 226808"*
De Moura B. Lustosa, Beck P. G., Di Mauro, M. P., de Almeida L., Duarte T. S. S., Coelho H. R., da Costa J. S., Castro M., do Nascimento J.-D. Jr.
2020, **ApJ** 894, pp. 67-85
7. *"Age dating of an early Milky Way merger via asteroseismology of the naked-eye star ν Indi"*
Chaplin W. J., Serenelli A. M., Miglio A., Morel T., Mackereth J. T., Vincenzo F., Kjeldsen H., Basu S., Ball W. H., Stokholm A., Verma K., Mosumgaard J. R., Silva Aguirre V., Mazumdar A., Ranadive P., Antia H. M., Lebreton Y., Ong J., Appourchaux T., Bedding. T. R., Christensen-Dalsgaard J., Creevey O., Garcia R. A., Handberg R., Huber D., Kawaler S. D., Lund M. N., Metcalfe T. S., Stassun K. G., Bazot M., Beck P. G., Bell K. J., Bergemann M. Buzasi D. L.,

- Benomar O., Bossini D., Bugnet L., Campante T. L., Celik Orhan Z. , Corsaro E., González-Cuesta L., Davies G. R., Di Mauro, M. P. et al.
2020, **Nat. Astron.** 4, pp. 382-389
8. *"Detection and characterisation of oscillating red giants: first results from the TESS satellite"*
Silva Aguirre V., Stello D., Stokholm A., Mosumgaard J. R., Ball W., Basu S., Bossini D., Bugnet L., Buzasi D., Tiago L. Campante T. L., Carboneau L. , Chaplin W. J., Corsaro E., Davies G. R., Elsworth Y., Garcia R. A., Gaulme P., Hall O. J., Handberg R., Hon M., Thomas Kallinger T., Kang L., Lund M. N., Mathur S., Mints A., Mosser B., Çelik Orhan Z. Ç, Rodrigues T. S., Vrad M., Yıldız M., Zinn J. C., Örtel S., Beck P. G., Bell K. J., Guo Z., Jiang C. , James S. Kuzlewicz J. S., Kuehn C. A., Li T. Lundkvist M. S., Pinsonneault M., Tayar J., Cunha M. S., Hekker S., Huber D., Miglio A., Monteiro M. J. P. F. G., Slumstrup D., Winther M. L., Angelou G., Benomar O., Bódi A., De Moura B. L., Deheuvels S., Derekas A., Di Mauro, M. P. et al.
2020, **ApJL** 889, pp. 34-43
9. *"A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS"*
Huber D., Chaplin W. J., Chontos A., Kjeldsen H., Christensen-Dalsgaard J., Bedding T. R., Ball W., Brahm R., Espinoza N., Henning T., Jordán A., Grundahl F., Fredslund Andersen M., Knudstrup E., Albrecht S., Crossfield I., Fulton B., Howard A. H., Isaacson H. T., Weiss L. M., Handberg R., Lund M., Serenelli A. M., Latham D. W., Bierly A., Quinn S. N., Gaidos E. N., Hirano T., Ricker G. R., Vanderspek R. K, Seager S., Jenkins J. N., Winn J. N., Antia H. M., Basu S., Bell K., Benomar O., Bonanno A., Buzasi D. L., Campante T. L., Çelik Orhan Z, Corsaro E., Cunha M. S., Davies G. R., Deheuvels S., Grunblatt S. K., Hasanzadeh A., Di Mauro, M. P. et al.
2019, **AJ** 157, pp. 245-257
10. *" The Rotational Shear Layer inside the Early Red-giant Star KIC 4448777"*
Di Mauro M. P., Ventura R., Corsaro E., Lustosa De Moura B.
2018, **ApJ** 862, pp. 9-19
11. *"PLATO as it is : A legacy mission for Galactic archaeology"*
Miglio A., Chiappini C., Mosser B., Davies G. R., Freeman K., Girardi L., Jofrè P., Kawata D., Rendle B. M., Valentini M., Casagrande L., Chaplin W. J., Gilmore G., Hawkins K., Holl B., Appourchaux T., Belkacem K., Bossini D., Brogaard K., Goupil M.-J., Montalbán J., Noels A., Anders F., Rodrigues T., Piotto G., Pollacco D., Rauer H., Prieto C. Allende, Avelino P. P., Babusiaux C., Barban C., Barbey B., Basu S., Baudin F., Benomar O., Bienaymé O., Binney J., Bland-Hawthorn J., Bressan A., Cacciari C., Campante T. L., Cassisi S., Christensen-Dalsgaard J., Combes F., Creevey O., Cunha M. S., Jong R. S., Laverny P., Degl'Innocenti S., Deheuvels S., Depagne è., De Ridder J., Di Matteo P., Di Mauro M. P., Dupret M. A., etc....
2017, **Astronomische Nachrichten**, vol. 338, issue 6, pp. 644-661
12. *"Internal Rotation of the Red-giant Star KIC 4448777 by Means of Asteroseismic Inversion"*
Di Mauro M. P., Ventura R., Cardini D., Stello D., Christensen-Dalsgaard J., Dziembowski W. A., Paternò L., Beck P. G., Bloemen S., Davies G. R., De Smedt K., Elsworth Y., Garcia R. A., Hekker S., Mosser B., Tkachenko A.
2016, **ApJ** 817, pp. 65-77
13. *"Oscillating Red Giants Observed during Campaign 1 of the Kepler K2 Mission: New Prospects for Galactic Archaeology"*
Stello D., Huber D., Sharma S., Johnson J., Lund M. N., Handberg R., Buzasi D. L., Silva Aguirre V., Chaplin W. J., Miglio A., Pinsonneault M., Basu S., Bedding T. R., Bland-Hawthorn J., Casagrande L., Davies G., Elsworth Y., Garcia R. A., Mathur S., Di Mauro M. P., Mosser B., Schneider D. P., Serenelli A., Valentini M. 2015, **ApJL** 809L, pp. 3-8

14. *"The GAPS programme with HARPS-N at TNG. VII. Putting exoplanets in the stellar context: magnetic activity and asteroseismology of Bootis A"*
Borsa F., Scandariato G., Rainer M., Bignamini A., Maggio A., Poretti E., Lanza A. F., Di Mauro M. P., Benatti S., Biazzo K., Bonomo A. S., Damasso M., Esposito M., Gratton R., Affer L., Barbieri M., Boccato C., Claudi R. U., Cosentino R., Covino E., Desidera S., Fiorenzano A. F. M., Gandolfi D., Harutyunyan A., Maldonado J., Micela G., Molaro P., Molinari E., Pagano I., Pillitteri I., Piotto G., Shkolnik E., Silvotti R., Smareglia R., Southworth J., Sozzetti A., Stelzer B.
2015, **A&A** 578, 64
15. *"Properties of 42 Solar-type Kepler Targets from the Asteroseismic Modeling Portal"*
Metcalf T. S., Creevey O. L., Dogan G., Mathur S., Xu H., Bedding T. R., Chaplin W. J., Christensen-Dalsgaard J., Karoff C., Trampedach R., Benomar O., Brown B. P., Buzasi D. L., Campante T. L., Çelik Z., Cunha M. S., Davies G. R., Deheuvels S., Dekerak A., Di Mauro M. P., García R. A., Guzik J. A., Howe R., MacGregor K. B., Mazumdar A., Montalbán J., Monteiro M. J. P. F. G., Salabert D., Serenelli A., Stello D., Stešlicki M., Suran M. D., Yildiz M., Aksoy C., Elsworth Y., Gruberbauer M., Guenther D. B., Lebreton Y., Molaverdikhani K., Pricopi D., Simoniello R., White T. R.
2014, **ApJS** 214, pp. 27–40
16. *"Asteroseismology of Evolved Stars with Kepler: A New Way to Constrain Stellar Interiors Using Mode Inertias"*
Benomar O., Belkacem K., Bedding T. R., Stello D., Di Mauro M. P., Ventura R., Mosser B., Goupil M. J., Samadi R., Garcia R. A.
2014, **ApJL** 781, pp. 29–34
17. *"The GAPS programme with HARPS-N at TNG. I. Observations of the Rossiter-McLaughlin effect and characterisation of the transiting system Qatar-1"*
Covino E., Esposito M., Barbieri M., Mancini L., Nascimbeni V., Claudi R., Desidera S., Gratton R., Lanza A. F., Sozzetti A., Biazzo K., Affer L., Gandolfi D., Munari U., Pagano I., Bonomo A. S., Collier Cameron A., Hébrard G., Maggio A., Messina S., Micela G., Molinari E., Pepe F., Piotto G., Ribas I., Santos N. C., Southworth J., Shkolnik E., TriAUD A. H. M. J., Bedin L., Benatti S., Boccato C., Bonavita M., Borsa F., Borsato L., Brown D., Carolo E., Ciceri S., Cosentino R., Damasso M., Faedi F., Mart{1 nez Fiorenzano A. F., Latham D. W., Lovis C., Mordasini C., Nikolov N., Poretti E., Rainer M., Rebolo López R., Scandariato G., Silvotti R., Smareglia R., Alcalà M., Cunial A., Di Fabrizio L., Di Mauro M. P., Giacobbe P., Granata V., Harutyunyan A., Knapic C., Lattanzi M., Leto G., Lodato G., Malavolta L., Marzari F., Molinaro M., Nardiello D., Pedani M., Prisinzano L., Turrini D.
2013, **A&A** 554, pp. 29–39 8
18. *"Characterizing Two Solar-type Kepler Subgiants with Asteroseismology: KIC 10920273 and KIC 11395018"*
Dogan G., Metcalfe T. S., Deheuvels S., Di Mauro M. P., Eggenberger P., Creevey O. L., Monteiro M. J. P. F. G., Pinsonneault M., Frasca A., Karoff C., Mathur S., Sousa S. G., Brandão I. M., Campante T. L., Handberg R., Thygesen A. O., Biazzo K., Bruntt H., Niemczura E., Bedding T. R., Chaplin W. J., Christensen-Dalsgaard J., Garcia R. A., Molenda-Zakowicz J., Stello D., Van Saders J. L., Kjeldsen H., Still M., Thompson S. E., Van Cleve J.
2013, **ApJ** 763, 49–59
19. *"Solar-like oscillations from the depths of the red-giant star KIC 4351319 observed with Kepler"*
Di Mauro M. P., Cardini D., Catanzaro G., Ventura R., Barban C., Bedding T. R., Christensen-Dalsgaard J., De Ridder J., Hekker S., Huber D., Kallinger T., Miglio A., Montalbán J., Mosser B., Stello D., Uytterhoeven K., Kinemuchi K., Kjeldsen H., Mullally F., Still M.
2011, **MNRAS** 415, 3783–3795

20. "Gravity mode as a way to distinguish between hydrogen- and helium-burning red giants stars"
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1. *The measurement of the angular momentum determined by asteroseismology*
the “Red giants” conference, University of Graz, 24-28 Febbraio 2020
2. *A review on Asteroseismology*
in Frontier Research in Astrophysics II, Mondello Workshop 2016, Palermo, May 23-28 2016,
Di Mauro M. P. 2017, in Proceeding of Science, Pos Vol. 269, id. 029, PoS(FRAPWS2016)029
3. *Conclusive summary of the meeting*
The 2nd SOLARNET meeting ‘The magnetic Solar and stellar magnetic activity’ Palermo,
February 2-5, 2015
4. *Effect of Uncertainties in stellar models on radial differential rotation inversion for solar-like
stars*
Space-Inn workshop on ‘Peak-bagging in Helio and Asteroseismology’, 10-13 March 2014, Tener-
ife, Spain
5. *L’Eliosismologia: onde sismiche per studiare l’interno del Sole*
Celebration of the 4th centennial of the publication of Galileo Galilei “Istoria e dimostrazioni
intorno alle macchie solari”, Accademia Nazionale dei Lincei 15th April 2013, Rome, Italy
Di Mauro M. P. in ‘Atti dell’ Accademia dei Lincei’ Volume 285, pp. 79-90, Scienze e Lettere
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6. *From Helio- to Asteroseismology and the progress in stellar physics*
EWASS 2012, European Week of Astronomy and Astrophysics conference, July 3, 2012, Rome, Italy
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7. *Final Summary of the conference*
The modern era of Helio- and Asteroseismology conference, European Science Foundation (ESF), 20-25 May 2012, Obergurgl, Austria
8. *Internal structure of a red-giant star observed with Kepler*
Waves and Physics: a conference in honour of Prof. D. Gough, 20-24 June 2011, Gargano, Italy
9. *Detailed Study of the Internal structure of a Red-giant star observed with Kepler*
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10. *HELAS: The European Helio- and Asteroseismology Network*
54th National Conference of SAIIt, 4-7 May 2010, Naples, Italy
11. *Helioseismology*
Conference on Heliophysics: the Sun, the Heliosphere and the Earth, Bad Honnef, Germany, 14-18 May 2007
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12. *Diffusion and Helioseismology*
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13. *Probing the solar equation of state, in Equation of state and Phase Transition*
Issues in Models of Ordinary Astrophysical Matter 2-11 June 2004, Leiden (Netherlands)
14. *Theoretical aspects of asteroseismology: Small steps towards a golden future*
SOHO 14/GONG 2004 Workshop - Helio- and Asteroseismology: Towards a Golden Future;. New Haven, CT, 12-16 July 2004
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15. *Helioseismology: A Fantastic Tool to Probe the Interior of the Sun*
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Red Giant workshop, 25-28 September 2017 Vienna
2. *"The evolution of the internal rotation of solar-type stars"*
Di Mauro M. P., Ventura R., Cardini D., Christensen-Dalsgaard J., Dziembowski W. A., Paternò L.
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3. *"The telescope and the double Fabry-Pérot interferometer for the ADAHELI solar space mission"*
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4. *"On the asteroseismic constraints for modeling the δ -Scuti stars V480TAU and θ^2 TAUA"*
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Poster papers

1. *“Asteroseismology of red giants”*
 Pijpers F., Di Mauro M. P. eposter online presentation at the European Astronomical Society Annual Meeting, EAS 2020,SS5: New insights of angular momentum transport in stellar interiors
2. *“Asteroseismology of red giants”*
Di Mauro M. P., Pijpers F., Ventura R. 2019, TASC5, KASC12 workshop 22-26 July 2019, MIT / Cambridge, USA
3. *“A synergic strategy to identify habitable exoplanets”*
Di Mauro M. P., Ventura R., Mura A., Plainaki C., Mangano V. 2014, PLATO 2.0 Science Conference, Taormina 3-5 Dicembre 2014
4. *“Exoplanetary Exosphere Tails”*
 Mura A., Di Mauro M. P., Mangano V., Plainaki C.
 2014, 11th European Space Weather week, 17-21 Novembre 2014
5. *“Internal rotation of red giants by asteroseismology”*
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M. Roth, O. von der Luhe, P. Palle, M. J. Thompson, J. Christensen-Dalsgaard, M. J. P. F. G. Monteiro, L. Gizon, M. P. Di Mauro, C. Aerts, J. Daszynska-Daszkiewicz, T. Corbard
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 14. "*Atmospheric parameters of a sample of giant stars with accurate radial velocity variations*"
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16. *"Seismological analysis of the Helium ionization zones in low- and moderate-mass stars"*
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18. *"Non-ideal effects on the solar equation of state"*
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19. *"Rotational splittings and internal dynamics of the Sun"*
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