

Articoli in peer reviewed journals

Francesco Berrilli

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References

- [1] Domenico Cicogna, Francesco Berrilli, Daniele Calchetti, Dario Del Moro, Luca Giovannelli, Federico Benvenuto, Cristina Campi, Sabrina Guastavino, and Michele Piana. Flare Forecasting Algorithms Based on High-Gradient Polarity Inversion Lines in Active Regions. *Astrophys. J.*, in press, 2021.
- [2] Marco Stangalini, Robertus Erdélyi, Callum Boocock, David Tsiklauri, Christopher J. Nelson, Dario Del Moro, Francesco Berrilli, and Marianna B. Korsós. Torsional oscillations within a magnetic pore in the solar photosphere. *Nature Astronomy*, May 2021.
- [3] Daniele Galuzzo, Chiara Cagnazzo, Francesco Berrilli, Federico Fierli, and Luca Giovannelli. Three-dimensional Climate Simulations for the Detectability of Proxima Centauri b. *Astrophys. J.*, 909(2):191, March 2021.
- [4] Daniele Calchetti, Stuart M. Jefferies, Bernhard Fleck, Francesco Berrilli, and Dmitriy V. Shcherbik. A new method for detecting solar atmospheric gravity waves. *Philosophical Transactions of the Royal Society of London Series A*, 379(2190):20200178, February 2021.
- [5] Christina Plainaki, Marco Antonucci, Alessandro Bemporad, Francesco Berrilli, Bruna Bertucci, Marco Castronuovo, Paola De Michelis, Marco Giardino, Roberto Iuppa, Monica Laurenza, Federica Marcucci, Mauro Messerotti, Livio Narici, Barbara Negri, Francesco Nozzoli, Stefano Orsini, Vincenzo Romano, Enrico Cavallini, Gianluca Polenta, and Alessandro Ippolito. Current state and perspectives of Space Weather science in Italy. *Journal of Space Weather and Space Climate*, 10:6, December 2020.
- [6] Roberta Forte, Francesco Berrilli, Daniele Calchetti, Dario Del Moro, Bernhard Fleck, Cynthia Giebink, William Giebink, Luca Giovannelli, Stuart Mark Jefferies, Allister Knox, Maria Magrì, Neil Murphy, Garry Nitta, Maurizio Oliviero, Ermanno Pietropaolo, Wayne Rodgers, Stefano Scardigli, and Giorgio Viavattene. Data reduction pipeline for MOF-based synoptic telescopes. *Journal of Space Weather and Space Climate*, 10:63, November 2020.

- [7] Fabio Giannattasio, Giuseppe Consolini, Francesco Berrilli, and Dario Del Moro. Magnetic Energy Balance in the Quiet Sun on Supergranular Spatial and Temporal Scales. *Astrophys. J.*, 904(1):7, November 2020.
- [8] Luca Giovannelli, Francesco Berrilli, Daniele Calchetti, Dario Del Moro, Giorgio Viavattene, Ermanno Pietropaolo, Marco Iarlori, Vincenzo Rizi, Stuart Mark Jefferies, Maurizio Oliviero, Luciano Terranegra, and Neil Murphy. The Tor Vergata Synoptic Solar Telescope (TSST): A robotic, compact facility for solar full disk imaging. *Journal of Space Weather and Space Climate*, 10:58, October 2020.
- [9] Giorgio Viavattene, Giuseppe Consolini, Luca Giovannelli, Francesco Berrilli, Dario Del Moro, Fabio Giannattasio, Valentina Penza, and Daniele Calchetti. Testing the Steady-State Fluctuation Relation in the Solar Photospheric Convection. *Entropy*, 22(7):716, June 2020.
- [10] Alberto Bigazzi, Carlo Cauili, and Francesco Berrilli. Lower-thermosphere response to solar activity: an empirical-mode-decomposition analysis of GOCE 2009-2012 data. *Annales Geophysicae*, 38(3):789–800, June 2020.
- [11] Francesco Berrilli, Serena Criscuoli, Valentina Penza, and Mija Lovric. Long-term (1749-2015) Variations of Solar UV Spectral Indices. *Solar Phys.*, 295(3):38, March 2020.
- [12] Vahid Abbasvand, Michal Sobotka, Petr Heinzel, Michal Švanda, Jan Jurčák, Dario del Moro, and Francesco Berrilli. Chromospheric Heating by Acoustic Waves Compared to Radiative Cooling. II. Revised Grid of Models. *Astrophys. J.*, 890(1):22, February 2020.
- [13] Bernhard Fleck, Stuart M. Jefferies, Neil Murphy, and Francesco Berrilli. Measuring the Dispersion Relation of Acoustic-Gravity Waves in the Solar Atmosphere. *Astrophysics and Space Science Proceedings*, 57:141–143, January 2020.
- [14] Sreeja Vadakke Veetil, Claudio Cesaroni, Marcio Aquino, Giorgiana De Franceschi, Francesco Berrilli, Filippo Rodriguez, Luca Spogli, Dario Del Moro, Alice Cristaldi, Vincenzo Romano, Roberto Ronchini, Stefano Di Rollo, Eric Guyader, and Angela Aragon-Angel. The ionosphere prediction service prototype for GNSS users. *Journal of Space Weather and Space Climate*, 9:A41, October 2019.
- [15] Stuart M. Jefferies, Bernhard Fleck, Neil Murphy, and Francesco Berrilli. Observed Local Dispersion Relations for Magnetoacoustic-gravity Waves in the Sun’s Atmosphere: Mapping the Acoustic Cutoff Frequency. *Astrophys. J. Lett.*, 884(1):L8, October 2019.
- [16] F. Giannattasio, G. Consolini, F. Berrilli, and D. Del Moro. The Complex Nature of Magnetic Element Transport in the Quiet Sun: The Lévy-walk Character. *Astrophys. J.*, 878(1):33, June 2019.

- [17] F. Berrilli, M. Casolino, A. Cristaldi, D. Del Moro, R. Forte, L. Giovannelli, M. Martucci, M. Mergé, G. Napoletano, L. Narici, E. Pietropaolo, G. Pucacco, A. Rizzo, S. Scardigli, and R. Sparvoli. Introducing SWERTO: A regional space weather service. *Nuovo Cimento C Geophysics Space Physics C*, 42(1):47, January 2019.
- [18] F. Rodriguez, L. R. Ronchini, S. Di Rollo, G. De Franceschi, C. Cesaroni, L. Spogli, V. Romano, M. Aquino, S. Veettil, F. Berrilli, D. Del Moro, M. Hutchinson, O. Kalden, A. Aragon-Angel, and E. Guyader. The Ionosphere Prediction Service. *Nuovo Cimento C Geophysics Space Physics C*, 42(1):45, January 2019.
- [19] F. Berrilli, A. Cristaldi, D. Del Moro, R. Forte, L. Giovannelli, G. Napoletano, and E. Pietropaolo. The Probabilistic Drag Based Model for ICME propagation. *Nuovo Cimento C Geophysics Space Physics C*, 42(1):39, January 2019.
- [20] G. Viavattene, F. Berrilli, G. Consolini, D. Del Moro, F. Giannattasio, L. Giovannelli, and V. Penza. Statistical behaviour of a proxy of the entropy production rate of the solar photosphere. *Nuovo Cimento C Geophysics Space Physics C*, 42(1):8, January 2019.
- [21] L. Giovannelli, F. Giannattasio, D. Del Moro, A. Caroli, and F. Berrilli. Diffusion of emerging bipolar magnetic pairs in solar photosphere. *Nuovo Cimento C Geophysics Space Physics C*, 42(1):3, January 2019.
- [22] M. Stangalini, S. Jafarzadeh, I. Ermolli, R. Erdélyi, D. B. Jess, P. H. Keys, F. Giorgi, M. Murabito, F. Berrilli, and D. Del Moro. Propagating Spectropolarimetric Disturbances in a Large Sunspot. *Astrophys. J.*, 869(2):110, December 2018.
- [23] Serena Criscuoli, Valentina Penza, Mija Lovric, and Francesco Berrilli. The Correlation of Synthetic UV Color versus Mg II Index along the Solar Cycle. *Astrophys. J.*, 865(1):22, September 2018.
- [24] F. Giannattasio, F. Berrilli, G. Consolini, D. Del Moro, M. Gošić, and L. Bellot Rubio. Occurrence and persistence of magnetic elements in the quiet Sun. *Astron. Astrophys.*, 611:A56, March 2018.
- [25] Gianluca Napoletano, Roberta Forte, Dario Del Moro, Ermanno Pietropaolo, Luca Giovannelli, and Francesco Berrilli. A probabilistic approach to the drag-based model. *Journal of Space Weather and Space Climate*, 8:A11, February 2018.
- [26] Mirko Piersanti, Tommaso Alberti, Alessandro Bemporad, Francesco Berrilli, Roberto Bruno, Vincenzo Capparelli, Vincenzo Carbone, Claudio Cesaroni, Giuseppe Consolini, Alice Cristaldi, Alfredo Del Corpo, Dario Del Moro, Simone Di Matteo, Ilaria Ermolli, Silvano Fineschi, Fabio Giannattasio, Fabrizio Giorgi, Luca Giovannelli, Salvatore Luigi Guglielmino,

- Monica Laurenza, Fabio Lepreti, Maria Federica Marcucci, Matteo Martucci, Matteo Mergè, Michael Pezzopane, Ermanno Pietropaolo, Paolo Romano, Roberta Sparvoli, Luca Spogli, Marco Stangalini, Antonio Vecchio, Massimo Vellante, Umberto Villante, Francesca Zuccarello, Balázs Heilig, Jan Reda, and János Lichtenberger. Comprehensive Analysis of the Geoeffective Solar Event of 21 June 2015: Effects on the Magnetosphere, Plasmasphere, and Ionosphere Systems. *Solar Phys.*, 292(11):169, November 2017.
- [27] Mija Lovric, Federico Tosone, Ermanno Pietropaolo, Dario Del Moro, Luca Giovannelli, Chiara Cagnazzo, and Francesco Berrilli. The dependence of the [FUV-MUV] colour on solar cycle. *Journal of Space Weather and Space Climate*, 7:A6, March 2017.
- [28] Dario Del Moro, Luca Giovannelli, Ermanno Pietropaolo, and Francesco Berrilli. JP3D compression of solar data-cubes: Photospheric imaging and spectropolarimetry. *Experimental Astronomy*, 43(1):23–37, February 2017.
- [29] M. Sobotka, P. Heinzel, M. Švanda, J. Jurčák, D. del Moro, and F. Berrilli. Chromospheric Heating by Acoustic Waves Compared to Radiative Cooling. *Astrophys. J.*, 826(1):49, July 2016.
- [30] A. Caroli, F. Giannattasio, M. Fanfoni, D. Del Moro, G. Consolini, and F. Berrilli. Turbulent convective flows in the solar photospheric plasma. *Journal of Plasma Physics*, 81(5):495810514, October 2015.
- [31] Francesco Berrilli, Paolo Soffitta, Marco Velli, Paolo Sabatini, Alberto Bigazzi, Ronaldo Bellazzini, Luis Ramon Bellot Rubio, Alessandro Brez, Vincenzo Carbone, Gianna Cauzzi, Fabio Cavallini, Giuseppe Consolini, Fabio Curti, Dario Del Moro, Anna Maria Di Giorgio, Ilaria Ermolli, Sergio Fabiani, Marianne Faurobert, Alex Feller, Klaus Galsgaard, Szymon Gburek, Fabio Giannattasio, Luca Giovannelli, Johann Hirzberger, Stuart M. Jefferies, Maria S. Madjarska, Fabio Manni, Alessandro Mazzoni, Fabio Muleri, Valentina Penza, Giovanni Peres, Roberto Piazzesi, Francesca Pieralli, Ermanno Pietropaolo, Valentin Martinez Pillet, Michele Pinchera, Fabio Reale, Paolo Romano, Andrea Romoli, Marco Romoli, Alda Rubini, Pawel Rudawy, Paolo Sandri, Stefano Scardigli, Gloria Spandre, Sami K. Solanki, Marco Stangalini, Antonio Vecchio, and Francesca Zuccarello. ADAHELI: exploring the fast, dynamic Sun in the x-ray, optical, and near-infrared. *Journal of Astronomical Telescopes, Instruments, and Systems*, 1:044006, October 2015.
- [32] P. Romano, F. Zuccarello, S. L. Guglielmino, F. Berrilli, R. Bruno, V. Carbone, G. Consolini, M. de Lauretis, D. Del Moro, A. Elmhamdi, I. Ermolli, S. Fineschi, P. Francia, A. S. Kordi, E. Landi Degl’Innocenti, M. Laurenza, F. Lepreti, M. F. Marcucci, G. Pallochia, E. Pietropaolo, M. Romoli, A. Vecchio, M. Vellante, and U. Villante. Recurrent flares in active region NOAA 11283. *Astron. Astrophys.*, 582:A55, October 2015.

- [33] D. Del Moro, F. Giannattasio, F. Berrilli, G. Consolini, F. Lepreti, and M. Gošić. Super-diffusion versus competitive advection: a simulation. *Astron. Astrophys.*, 576:A47, April 2015.
- [34] I. Bordi, F. Berrilli, and E. Pietropaolo. Long-term response of stratospheric ozone and temperature to solar variability. *Annales Geophysicae*, 33(3):267–277, March 2015.
- [35] Dario Del Moro, Roberto Piazzesi, Marco Stangalini, Luca Giovannelli, and Francesco Berrilli. Improvements on adaptive optics control approaches: experimental tests of wavefront correction forecasting. *Journal of Astronomical Telescopes, Instruments, and Systems*, 1:019002, January 2015.
- [36] F. Giannattasio, F. Berrilli, L. Biferale, D. Del Moro, M. Sbragaglia, L. Bellot Rubio, M. Gošić, and D. Orozco Suárez. Pair separation of magnetic elements in the quiet Sun. *Astron. Astrophys.*, 569:A121, September 2014.
- [37] M. Stangalini, G. Consolini, F. Berrilli, P. De Michelis, and R. Tozzi. Observational evidence for buffeting-induced kink waves in solar magnetic elements. *Astron. Astrophys.*, 569:A102, September 2014.
- [38] F. Berrilli, S. Scardigli, and D. Del Moro. Magnetic pattern at supergranulation scale: the void size distribution. *Astron. Astrophys.*, 568:A102, August 2014.
- [39] F. Giannattasio, M. Stangalini, F. Berrilli, D. Del Moro, and L. Bellot Rubio. Diffusion of Magnetic Elements in a Supergranular Cell. *Astrophys. J.*, 788(2):137, June 2014.
- [40] Luca Di Fino, Veronica Zaconté, Marco Stangalini, Roberta Sparvoli, Piergiorgio Picozza, Roberto Piazzesi, Livio Narici, Marianna Larosa, Dario Del Moro, Marco Casolino, Francesco Berrilli, and Stefano Scardigli. Solar particle event detected by ALTEA on board the International Space Station. The March 7th, 2012 X5.4 flare. *Journal of Space Weather and Space Climate*, 4:A19, May 2014.
- [41] Francesco Berrilli, Marco Casolino, Dario Del Moro, Luca Di Fino, Marianna Larosa, Livio Narici, Roberto Piazzesi, Piergiorgio Picozza, Stefano Scardigli, Roberta Sparvoli, Marco Stangalini, and Veronica Zaconté. The relativistic solar particle event of May 17th, 2012 observed on board the International Space Station. *Journal of Space Weather and Space Climate*, 4:A16, May 2014.
- [42] V. Penza and F. Berrilli. Velocity and Temperature Response Functions of 61 Photospheric Lines in the Near-Infrared H Band (1500 - 1800 nm) - II. *Solar Phys.*, 289(1):27–40, January 2014.
- [43] M. Sobotka, M. Švanda, J. Jurčák, P. Heinzel, D. Del Moro, and F. Berrilli. An Estimate of Chromospheric Heating by Acoustic Waves. *Central European Astrophysical Bulletin*, 38:53–58, January 2014.

- [44] M. Sobotka, M. Švanda, J. Jurčák, P. Heinzel, D. Del Moro, and F. Berrilli. Dynamics of the solar atmosphere above a pore with a light bridge. *Astron. Astrophys.*, 560:A84, December 2013.
- [45] M. Stangalini, F. Berrilli, and G. Consolini. The spectrum of kink-like oscillations of solar photospheric magnetic elements. *Astron. Astrophys.*, 559:A88, November 2013.
- [46] F. Giannattasio, D. Del Moro, F. Berrilli, L. Bellot Rubio, M. Gošić, and D. Orozco Suárez. Diffusion of Solar Magnetic Elements up to Supergranular Spatial and Temporal Scales. *Astrophys. J. Lett.*, 770(2):L36, June 2013.
- [47] F. Berrilli, S. Scardigli, and S. Giordano. Multiscale Magnetic Underdense Regions on the Solar Surface: Granular and Mesogranular Scales. *Solar Phys.*, 282(2):379–387, February 2013.
- [48] F. Giannattasio, M. Stangalini, D. Del Moro, and F. Berrilli. On the asymmetry of velocity oscillation amplitude in bipolar active regions. *Astron. Astrophys.*, 550:A47, February 2013.
- [49] P. Romano, F. Berrilli, S. Criscuoli, D. Del Moro, I. Ermolli, F. Giorgi, B. Viticchié, and F. Zuccarello. A Comparative Analysis of Photospheric Bright Points in an Active Region and in the Quiet Sun. *Solar Phys.*, 280(2):407–416, October 2012.
- [50] S. Criscuoli, D. Del Moro, F. Giannattasio, B. Viticchié, F. Giorgi, I. Ermolli, F. Zuccarello, and F. Berrilli. High cadence spectropolarimetry of moving magnetic features observed around a pore. *Astron. Astrophys.*, 546:A26, October 2012.
- [51] V. Penza and F. Berrilli. Velocity and Temperature Response Functions of 77 Near-Infrared (800 - 1400 nm) Photospheric Lines - I. *Solar Phys.*, 277(2):227–243, April 2012.
- [52] Hardi Peter, L. Abbo, V. Andretta, F. Auchère, A. Bemporad, F. Berrilli, V. Bommier, A. Braukhane, R. Casini, W. Curdt, J. Davila, H. Dittus, S. Fineschi, A. Fludra, A. Gandorfer, D. Griffin, B. Inhester, A. Lagg, E. Landi Degl’Innocenti, V. Maiwald, R. Manso Sainz, V. Martínez Pillet, S. Matthews, D. Moses, S. Parenti, A. Pietarila, D. Quantius, N. E. Raouafi, J. Raymond, P. Rochus, O. Romberg, M. Schlotterer, U. Schühle, S. Solanki, D. Spadaro, L. Teriaca, S. Tomczyk, J. Trujillo Bueno, and J. C. Vial. Solar magnetism eXplorer (SolmeX). Exploring the magnetic field in the upper atmosphere of our closest star. *Experimental Astronomy*, 33(2-3):271–303, April 2012.
- [53] M. Stangalini, F. Giannattasio, D. Del Moro, and F. Berrilli. Three-minute wave enhancement in the solar photosphere. *Astron. Astrophys.*, 539:L4, March 2012.

- [54] M. Sobotka, D. Del Moro, J. Jurčák, and F. Berrilli. Magnetic and velocity fields of a solar pore. *Astron. Astrophys.*, 537:A85, January 2012.
- [55] M. Stangalini, D. Del Moro, F. Berrilli, and S. M. Jefferies. MHD wave transmission in the Sun’s atmosphere. *Astron. Astrophys.*, 534:A65, October 2011.
- [56] B. Viticchié, J. Sánchez Almeida, D. Del Moro, and F. Berrilli. Interpretation of HINODE SOT/SP asymmetric Stokes profiles observed in the quiet Sun network and internetwork. *Astron. Astrophys.*, 526:A60, February 2011.
- [57] B. Viticchié, D. Del Moro, S. Criscuoli, and F. Berrilli. Imaging Spectropolarimetry with IBIS. II. On the Fine Structure of G-band Bright Features. *Astrophys. J.*, 723(1):787–796, November 2010.
- [58] P. F. Moretti, F. Berrilli, A. Bigazzi, S. M. Jefferies, N. Murphy, L. Roselli, and M. P. di Mauro. Future instrumentation for solar physics: a double channel MOF imager on board ASI Space Mission ADAHELI. *Astrophys. Space Sci.*, 328(1-2):313–318, July 2010.
- [59] B. Viticchié, M. Vantaggiato, F. Berrilli, D. Del Moro, V. Penza, E. Pietropaolo, and M. Rast. Modeling the solar irradiance background via numerical simulation. *Astrophys. Space Sci.*, 328(1-2):39–42, July 2010.
- [60] F. Berrilli, A. Bigazzi, L. Roselli, P. Sabatini, M. Velli, F. Alimenti, F. Cavallini, V. Greco, P. F. Moretti, S. Orsini, M. Romoli, S. M. White, ADAHELI Team, L. Ascani, V. Carbone, F. Curti, G. Consolini, M. P. Di Mauro, D. Del Moro, A. Egidi, I. Ermolli, S. Giordano, M. Pastena, V. Pulcino, E. Pietropaolo, P. Romano, P. Ventura, G. Cauzzi, L. Valdettaro, F. Zuccarello, and ADAHELI Team. The ADAHELI solar mission: Investigating the structure of Sun’s lower atmosphere. *Advances in Space Research*, 45(10):1191–1202, May 2010.
- [61] Marco Stangalini, Dario Del Moro, Francesco Berrilli, and Oskar von der Lühe. Zernike basis optimization for solar adaptive optics by using information theory. , 49(11):2090, April 2010.
- [62] Nathan Goldbaum, Mark P. Rast, Ilaria Ermolli, J. Summer Sands, and Francesco Berrilli. The Intensity Profile of the Solar Supergranulation. *Astrophys. J.*, 707(1):67–73, December 2009.
- [63] B. Viticchié, D. Del Moro, F. Berrilli, L. Bellot Rubio, and A. Tritschler. Imaging Spectropolarimetry with IBIS: Evolution of Bright Points in the Quiet Sun. *Astrophys. J. Lett.*, 700(2):L145–L148, August 2009.
- [64] F. Zuccarello, P. Romano, S. L. Guglielmino, M. Centrone, S. Criscuoli, I. Ermolli, F. Berrilli, and D. Del Moro. Observation of bipolar moving magnetic features streaming out from a naked spot. *Astron. Astrophys.*, 500(2):L5–L8, June 2009.

- [65] F. Berrilli, D. Del Moro, and B. Viticchiè. Magnetic field distribution in the quiet Sun: a simplified model approach. *Astron. Astrophys.*, 489(2):763–767, October 2008.
- [66] S. Giordano, F. Berrilli, D. Del Moro, and V. Penza. The photospheric structure of a solar pore with light bridge. *Astron. Astrophys.*, 489(2):747–754, October 2008.
- [67] J. Sánchez Almeida, B. Viticchiè, E. Landi Degl’Innocenti, and F. Berrilli. Quiet-Sun Magnetic Field Measurements Based on Lines with Hyperfine Structure. *Astrophys. J.*, 675(1):906–919, March 2008.
- [68] D. Del Moro, S. Giordano, and F. Berrilli. 3D photospheric velocity field of a supergranular cell. *Astron. Astrophys.*, 472(2):599–605, September 2007.
- [69] B. Viticchiè, D. Del Moro, and F. Berrilli. Statistical Properties of Synthetic Nanoflares. *Astrophys. J.*, 652(2):1734–1739, December 2006.
- [70] S. Giordano, D. Del Moro, and F. Berrilli. First results from IBIS: Photosphere dynamics and network magnetic elements. *Advances in Space Research*, 38(5):898–901, January 2006.
- [71] F. Berrilli, D. Del Moro, S. Russo, G. Consolini, and Th. Straus. Spatial Clustering of Photospheric Structures. *Astrophys. J.*, 632(1):677–683, October 2005.
- [72] F. Berrilli, D. del Moro, A. Florio, and L. Santillo. Segmentation Of Photospheric And Chromospheric Solar Features. *Solar Phys.*, 228(1-2):81–95, May 2005.
- [73] F. Berrilli, D. Del Moro, G. Consolini, E. Pietropaolo, Jr. Duvall, T. L., and A. G. Kosovichev. Structure Properties of Supergranulation and Granulation. *Solar Phys.*, 221(1):33–45, May 2004.
- [74] D. Del Moro, F. Berrilli, Jr. Duvall, T. L., and A. G. Kosovichev. Dynamics and Structure of Supergranulation. *Solar Phys.*, 221(1):23–32, May 2004.
- [75] I. Ermolli, F. Berrilli, and A. Florio. A measure of the network radiative properties over the solar activity cycle. *Astron. Astrophys.*, 412:857–864, December 2003.
- [76] P. F. Moretti, F. Berrilli, A. Sebastianelli, C. Briand, and E. Pietropaolo. The Detection of Photospheric Impacts from Chromospheric Impulsive Events. *Astrophys. J. Lett.*, 589(2):L109–L112, June 2003.
- [77] G. Consolini, F. Berrilli, A. Florio, E. Pietropaolo, and L. A. Smaldone. Information entropy in solar atmospheric fields. I. Intensity photospheric structures. *Astron. Astrophys.*, 402:1115–1127, May 2003.

- [78] F. Berrilli, G. Consolini, A. Florio, D. Del Moro, and E. Pietropaolo. Granulation structure and information entropy. *Astronomische Nachrichten*, 324(4):405, January 2003.
- [79] F. Cavallini, F. Berrilli, S. Cantarano, and A. Egidi. IBIS (Interferometric BIdimensional Spectrometer). *Nuovo Cimento C Geophysics Space Physics C*, 025(5-6):673, September 2002.
- [80] D. del Moro, S. Criscuoli, J. A. Bonet, F. Berrilli, and A. Egidi. Evolution of solar granulation fields from THEMIS-IPM time series. *Nuovo Cimento C Geophysics Space Physics C*, 025(5-6):595, September 2002.
- [81] F. Berrilli, G. Consolini, and E. Pietropaolo. Dynamics of the solar photosphere: THEMIS observations. *Nuovo Cimento C Geophysics Space Physics C*, 025(5-6):535, September 2002.
- [82] F. Lepreti, A. Vecchio, V. Carbone, P. Veltri, L. Primavera, F. Berrilli, G. Consolini, and E. Pietropaolo. Solar Granulation and P-modes. In *EGS General Assembly Conference Abstracts*, EGS General Assembly Conference Abstracts, page 6305, January 2002.
- [83] V. Carbone, F. Lepreti, L. Primavera, E. Pietropaolo, F. Berrilli, G. Consolini, G. Alfonsi, B. Bavassano, R. Bruno, A. Vecchio, and P. Veltri. An analysis of the vertical photospheric velocity field as observed by THEMIS. *Astron. Astrophys.*, 381:265–270, January 2002.
- [84] F. Berrilli, G. Consolini, E. Pietropaolo, B. Caccin, V. Penza, and F. Lepreti. 2-D multiline spectroscopy of the solar photosphere. *Astron. Astrophys.*, 381:253–264, January 2002.
- [85] F. Lepreti, V. Carbone, E. Pietropaolo, G. Consolini, R. Bruno, B. Bavassano, and F. Berrilli. Multifractal structure of the dissipation field of intensity fluctuations in the solar photosphere. *Physica A Statistical Mechanics and its Applications*, 280:87–91, May 2000.
- [86] G. Consolini, V. Carbone, F. Berrilli, R. Bruno, B. Bavassano, C. Briand, B. Caccin, G. Ceppatelli, A. Egidi, I. Ermolli, A. Florio, G. Mainella, and E. Pietropaolo. Scaling behavior of the vertical velocity field in the solar photosphere. *Astron. Astrophys.*, 344:L33–L36, April 1999.
- [87] F. Berrilli, A. Florio, G. Consolini, B. Bavassano, C. Briand, R. Bruno, B. Caccin, V. Carbone, G. Ceppatelli, A. Egidi, I. Ermolli, G. Mainella, and E. Pietropaolo. Dependence of the photospheric vertical flow characteristics on the granule dimension. *Astron. Astrophys.*, 344:L29–L32, April 1999.
- [88] F. Berrilli, I. Ermolli, A. Florio, and E. Pietropaolo. Average properties and temporal variations of the geometry of solar network cells. *Astron. Astrophys.*, 344:965–972, April 1999.

- [89] F. Berrilli, A. Florio, and I. Ermolli. On the Geometrical Properties of the Chromospheric Network. *Solar Phys.*, 180:29–45, June 1998.
- [90] I. Ermolli, M. Fofi, C. Bernacchia, F. Berrilli, B. Caccin, A. Egidi, and A. Florio. The Prototype Rise-Pspt Instrument Operating in Rome. *Solar Phys.*, 177:1–10, January 1998.
- [91] F. Berrilli, B. Caccin, S. Cantarano, and A. Egidi. Image acquisition system for the Italian Panoramic Monochromator of the THEMIS telescope. *Nuovo Cimento C Geophysics Space Physics C*, 20C:967–972, December 1997.
- [92] F. Berrilli, S. Cantarano, and A. Egidi. The solar-image acquisition system at Tor Vergata University. *Nuovo Cimento C Geophysics Space Physics C*, 18C:269–274, June 1995.
- [93] F. Berrilli, S. Cantarano, A. Egidi, and A. Magagna. A study of the solar atmosphere with high-resolution spectroscopic images: acquisition system. *Nuovo Cimento C Geophysics Space Physics C*, 15(5):519–526, October 1992.
- [94] F. Cavallini, G. Ceppatelli, A. Righini, F. Berrilli, B. Caccin, S. Cantarano, A. Egidi, P. Francia, and E. Pietropaolo. High-resolution spectroscopic imaging of the Sun with a Universal Birefringent filter and a Fabry-Perot interferometer. *Nuovo Cimento C Geophysics Space Physics C*, 15(5):509–518, October 1992.
- [95] F. Berrilli, G. Corciulo, G. Ingresso, D. Lorenzetti, B. Nisini, and F. Strafella. Infrared Emission from Dust Structures Surrounding Herbig Ae/Be Stars. *Astrophys. J.*, 398:254, October 1992.
- [96] F. Berrilli, C. Ceccarelli, D. Lorenzetti, B. Nisini, P. Saraceno, and F. Strafella. IRAS observations of Herbig Ae/Be stars. *Nuovo Cimento C Geophysics Space Physics C*, 13:293–302, February 1990.
- [97] F. Berrilli, C. Ceccarelli, R. Liseau, P. Saraceno, and L. Spinoglio. Erratum - the Evolutionary Status of Young Stellar Mass Loss Driving Sources as Derived from IRAS Observations. *Mon. Not. Roy. Astron. Soc.*, 239:255, July 1989.
- [98] F. Berrilli, C. Ceccarelli, R. Liseau, D. Lorenzetti, P. Saraceno, and L. Spinoglio. The evolutionary status of young stellar mass loss driving sources as derived from IRAS observations. *Mon. Not. Roy. Astron. Soc.*, 237:1–15, March 1989.
- [99] F. Berrilli, D. Lorenzetti, P. Saraceno, and F. Strafella. Multiband photometry (8–13 μm) of Herbig Ae/Be stars. *Mon. Not. Roy. Astron. Soc.*, 228:833–842, October 1987.