

Bibliography from ADS file: roudier.bib
September 14, 2022

- Upton, L., Jain, K., Komm, R., et al., “A Comparative Study of Measurements of the Suns Axisymmetric Flows: A COFFIES Effort”, 2021AGUFMSH5D1871U ADS
- Korda, D., Švanda, M., & Roudier, T., “One-sided arc averaging geometries in time-distance local helioseismology”, 2021A&A...654A..84K ADS
- Ballot, J., Roudier, T., Malherbe, J. M., & Frank, Z., “Changes in granulation scales over the solar cycle seen with SDO/HMI and Hinode/SOT”, 2021A&A...652A.103B ADS
- Roudier, T., Švanda, M., Malherbe, J. M., et al., “Photospheric downflows observed with SDO/HMI, HINODE, and an MHD simulation”, 2021A&A...647A.178R ADS
- Aurière, M., Petit, P., Mathias, P., et al., “Pollux: A weak dynamo-driven dipolar magnetic field and implications for its probable planet”, 2021A&A...646A.130A ADS
- Roudier, T., Malherbe, J. M., Gelly, B., et al., “Evolution of exploding granules from coordinated observations by THEMIS, IRIS, SDO/HMI, and HINODE, and a simulation”, 2020A&A...641A..50R ADS
- Wollmann, J., Švanda, M., Korda, D., & Roudier, T., “Evolution of photospheric flows under an erupting filament in the quiet-Sun region”, 2020A&A...636A.102W ADS
- Tremblay, B., Roudier, T., Cossette, J.-F., et al., “Neural Network to Emulate Numerical Simulations of the Sun and Infer Synthetic Observations for Data Assimilation”, 2019shin.confE..30T ADS
- Roudier, T., Malherbe, J. M., Stein, R. F., & Frank, Z., “Link between trees of fragmenting granules and deep downflows in MHD simulation”, 2019A&A...622A.112R ADS
- Roudier, T., Schmieder, B., Filippov, B., Chandra, R., & Malherbe, J. M., “Horizontal photospheric flows trigger a filament eruption”, 2018A&A...618A..43R ADS
- Tremblay, B., Roudier, T., Rieutord, M., & Vincent, A., “Reconstruction of Horizontal Plasma Motions at the Photosphere from Intensitygrams: A Comparison Between DeepVel, LCT, FLCT, and CST”, 2018SoPh...293...57T ADS
- Malherbe, J. M., Roudier, T., Stein, R., & Frank, Z., “Dynamics of Trees of Fragmenting Granules in the Quiet Sun: Hinode/SOT Observations Compared to Numerical Simulation”, 2018SoPh...293...4M ADS
- Rincon, F., Roudier, T., Schekochihin, A. A., & Rieutord, M., “Supergranulation and multiscale flows in the solar photosphere. Global observations vs. a theory of anisotropic turbulent convection”, 2017A&A...599A..69R ADS
- Švanda, M., Brun, A. S., Roudier, T., & Jouve, L., “Polar cap magnetic field reversals during solar grand minima: could pores play a role?”, 2016A&A...586A.123S ADS
- Malherbe, J. M., Roudier, T., Frank, Z., & Rieutord, M., “Families of Granules, Flows, and Acoustic Events in the Solar Atmosphere from Hinode Observations”, 2015SoPh...290..321M ADS
- Aurière, M., Konstantinova-Antova, R., Charbonnel, C., et al., “The magnetic fields at the surface of active single G-K giants”, 2015A&A...574A..90A ADS
- Lord, J. W., Cameron, R. H., Rast, M. P., Rempel, M., & Roudier, T., “The Role of Subsurface Flows in Solar Surface Convection: Modeling the Spectrum of Supergranular and Larger Scale Flows”, 2014ApJ...793...24L ADS
- Aurière, M., Konstantinova-Antova, R., Espagnet, O., et al., “Pollux: a stable weak dipolar magnetic field but no planet?”, 2014IAUS...302..359A ADS
- Schmieder, B., Roudier, T., Mein, N., et al., “Proper horizontal photospheric flows in a filament channel”, 2014A&A...564A.104S ADS
- Schmieder, B., Mein, P., Mein, N., Roudier, T., & Chandra, R., “Proper horizontal photospheric flows below an eruptive filament”, 2014cosp...40E2926S ADS
- Mein, N., Mein, P., Schmieder, B., Malherbe, J.-M., & Roudier, T., “Dynamics in the filament of september 17 2010 and in its channel”, 2014IAUS...300..451M ADS
- Švanda, M., Roudier, T., Rieutord, M., Burston, R., & Gizon, L., “Comparison of Solar Surface Flows Inferred from Time-Distance Helioseismology and Coherent Structure Tracking Using HMI/SDO Observations”, 2013ApJ...771...32S ADS
- Petit, P., Aurière, M., Konstantinova-Antova, R., et al., “Magnetic Fields and Convection in the Cool Supergiant Betelgeuse”, in J.-P. Rozelot and C. E. Neiner (Eds.), Lecture Notes in Physics, Berlin Springer Verlag, Vol. 857, 231 2013LNP...857..231P ADS
- Roudier, T., Rieutord, M., Rincon, F., et al., “The Power Spectrum of the Solar Surface Flows from Hinode Data and First Observations with MOF/CALAS Pic-du-Midi”, 2012ASPC...454...47R ADS
- Aurière, M., Konstantinova-Antova, R., Petit, P., et al., “14 Ceti: a probable Astar-descendant entering the Hertzsprung gap”, 2012A&A...543A.118A ADS
- Malherbe, J. M., Roudier, T., Rieutord, M., Berger, T., & Franck, Z., “Acoustic Events in the Solar Atmosphere from Hinode/SOT NFI Observations”, 2012SoPh...278..241M ADS
- Rieutord, M., Rincon, F., & Roudier, T., “MHD simulations of the solar photosphere”, 2012EAS...55...5R ADS
- Roudier, T., Malherbe, J., Rieutord, M., et al., “Some Dynamic Analysis of the Photosphere from Hinode/SOT and SDO/HMI Observations”, 2012ASPC...456...65R ADS
- Roudier, T., “Photospheric motions from an observational point of view: HINODE and SDO satellite observations”, 2011sf2a.conf..241R ADS
- Aurière, M., Konstantinova-Antova, R., Petit, P., & Roudier, T., “EK Eri: Magnetic Topology and Rotational Period”, 2011ASPC...448.1065A ADS
- Aurière, M., Konstantinova-Antova, R., Petit, P., et al., “A dominant magnetic dipole for the evolved Ap star candidate EK Eridani”, 2011A&A...534A.139A ADS
- Kühner, O., Utz, D., Hanslmeier, A., et al., “Multiwavelength Investigations of Magnetic Bright Points”, 2011CEAB...35...29K ADS
- Aurière, M., Wade, G. A., Lignières, F., et al., “No detection of large-scale magnetic fields at the surfaces of Am and HgMn stars”, 2010A&A...523A..40A ADS
- Aurière, M., Donati, J. F., Konstantinova-Antova, R., et al., “The magnetic field of Betelgeuse: a local dynamo from giant convection cells?”, 2010A&A...516L...2A ADS
- Rieutord, M., Roudier, T., Rincon, F., et al., “On the power spectrum of solar surface flows”, 2010A&A...512A..4R ADS
- Kühner, O., Veronig, A., Utz, D., et al., “Brightness profiles and size distributions of MBPs observed in different heights by HINODE/SOT data”, 2010cosp...38.2948K ADS
- Hanslmeier, A., Muller, R., Utz, D., & Roudier, T., “Hinode - Synoptic observations of convection dynamics”, 2010CEAB...34...81H ADS
- Kuehner, O., Utz, D., Hanslmeier, A., et al., “Multiwavelength alignment of Hinode/SOT Data”, 2010CEAB...34...31K ADS
- Lüftinger, T., Fröhlich, H. E., Weiss, W. W., et al., “Surface structure of the CoRoT CP2 target star HD 50773”, 2010A&A...509A..43L ADS
- Roudier, T., Rincon, F., Rieutord, M., et al., “Supergranulation, Network Formation, and TFGs Evolution from Hinode Observations”, 2009ASPC...415..203R ADS
- Aurière, M., Wade, G. A., Konstantinova-Antova, R., et al., “Discovery of a weak magnetic field in the photosphere of the single giant Pollux”, 2009A&A...504..231A ADS
- Aurière, M., Konstantinova-Antova, R., Petit, P., Wade, G., & Roudier, T., “Direct detection of a magnetic field on the surface of slowly rotating giant stars”, 2009IAUS...259..431A ADS
- Beigbeder, F., Bourrec, E., Dupieux, M., et al., “Development of large and fast cmos aps cameras at lat”, 2009EAS...37..301B ADS
- Aurière, M., Konstantinova-Antova, R., Petit, P., et al., “EK Eridani: the tip of the iceberg of giants which have evolved from magnetic Ap stars”, 2008A&A...491..499A ADS
- Rieutord, M., & Roudier, T., “Dynamics of the Solar Surface Revealed by Granule Tracking”, 2008ESPM...12..2.9R ADS
- Meunier, N., Roudier, T., & Rieutord, M., “Supergranules over the solar cycle”, 2008A&A...488.1109M ADS
- Aurière, M., Wade, G. A., Lignières, F., et al., “Weak magnetic fields in CP stars”, 2008CoSka...38..211A ADS
- Dudík, J., Aulanier, G., Schmieder, B., Bommier, V., & Roudier, T., “Topological Departures from Translational Invariance along a Filament Observed by THEMIS”, 2008SoPh...248...29D ADS
- Roudier, T., Švanda, M., Meunier, N., et al., “Large-scale horizontal flows in the solar photosphere. III. Effects on filament destabilization”, 2008A&A...480..255R ADS
- Rieutord, M., Meunier, N., Roudier, T., et al., “Solar supergranulation revealed by granule tracking”, 2008A&A...479L..17R ADS
- Sobotka, M. & Roudier, T., “Properties of sunspot moats derived from horizontal motions”, 2007A&A...472..277S ADS
- Tkaczuk, R., Rieutord, M., Meunier, N., & Roudier, T., “Tracking granules on the Sun’s surface and reconstructing velocity fields. II. Error analysis”, 2007A&A...471..695T ADS
- Rieutord, M., Roudier, T., Roques, S., & Ducottet, C., “Tracking granules on the Sun’s surface and reconstructing velocity fields. I. The CST algorithm”, 2007A&A...471..687R ADS
- Sobotka, M. & Roudier, T., “Horizontal Motions in the Vicinity of Sunspots”, 2007ASPC...368..259S ADS
- Meunier, N., Roudier, T., & Tkaczuk, R., “Are supergranule sizes anti-correlated with magnetic activity?”, 2007A&A...466.1123M ADS
- Meunier, N. & Roudier, T., “The superrotation of solar supergranules”, 2007A&A...466..691M ADS

- Arnaud, J., Roudier, T., Malherbe, M., & Moity, J., "Solar Spectro-Polarimetry at Pic-du-Midi/LJR", 2006ASPC..358..167A [ADS](#)
- Turck-Chièze, S., Schmutz, W., Thuillier, G., et al., "The DynaMICS perspective", 2006ESASP.624E..24T [ADS](#)
- Turck-Chièze, S., Schmutz, W., Thuillier, G., et al., "The EUV Variability Experiment (EVE) on the Solar Dynamics Observatory (SDO): Science Plan and Instrument Overview", 2006ESASP.617E.165W [ADS](#)
- Turck-Chièze, S., Schmutz, W., Thuillier, G., et al., "Scientific Objectives of the Novel Formation Flying Mission Aspiics", 2006ESASP.617E.164L [ADS](#)
- Turck-Chièze, S., Schmutz, W., Thuillier, G., et al., "The Dynamics Project", 2006ESASP.617E.162T [ADS](#)
- Krijger, J. M. & Roudier, T., "Photospheric flows measured with TRACE II. Network formation", 2003A&A...403..715K [ADS](#)
- Rieutord, M., Ludwig, H. G., Roudier, T., Nordlund, ., & Stein, R., "A simulation of solar convection at supergranulation scale", 2002NCimC..25..523R [ADS](#)
- Krijger, J. M., Roudier, T., & Rieutord, M., "Photospheric flows measured with TRACE", 2002A&A...387..672K [ADS](#)
- Rieutord, M., Roudier, T., Ludwig, H. G., Nordlund, Å., & Stein, R., "Are granules good tracers of solar surface velocity fields?", 2001A&A...377L..14R [ADS](#)
- Rieutord, M., Roudier, T., Malherbe, J. M., & Rincon, F., "On mesogranulation, network formation and supergranulation", 2000A&A...357.1063R [ADS](#)
- Roudier, T., Rieutord, M., Malherbe, J. M., & Vigneau, J., "Internal intermittency on the Sun surface?", 1999joso.proc..197R [ADS](#)
- Schmieder, B., Aulanier, G., Demoulin, P., et al., "Magnetic reconnection driven by emergence of sheared magnetic field.", 1997A&A...325.1213S [ADS](#)
- Roudier, T., Malherbe, J. M., November, L., et al., "Intergranular plumes and formation of network bright points.", 1997A&A...320..605R [ADS](#)
- Aulanier, G., Démoulin, P., Schmieder, B., et al., "Magnetic reconnection driven by an emerging flux.", 1997joso.proc..51A [ADS](#)
- Schneider, B., Démoulin, P., Aulanier, G., et al., "3-D reconnection related to new emerging flux", 1997AdSpR..19.1871S [ADS](#)
- Espagnet, O., Muller, R., Roudier, T., et al., "Spatial relation between the 5-minute oscillations and granulation patterns.", 1996A&A...313..297E [ADS](#)
- Wiik, J. E., Schmieder, B., Heinzel, P., & Roudier, T., "Post-Flare Loops of 26 June 1992, III", 1996SoPh..166..89W [ADS](#)
- Schmieder, B., Malherbe, J. M., Mein, P., et al., "Signatures of New Emerging Flux in the Solar Atmosphere", 1996ASPC..111..43S [ADS](#)
- Roudier, T., Mein, P., & Rayrole, J., "THEMIS IR Capabilities", 1995itsa.conf..195R [ADS](#)
- Roudier, T., "BASS 2000: Base solaire 'sol' 2000 (solar 'ground-based' database 2000)", 1995VA....39..115R [ADS](#)
- Espagnet, O., Muller, R., Roudier, T., Mein, N., & Mein, P., "Penetration of the solar granulation into the photosphere: height dependence of intensity and velocity fluctuations.", 1995A&AS..109..79E [ADS](#)
- Wiik, J. E., Schmieder, B., Heinzel, P., & Roudier, T., "Dynamics of post-flare loops observed on June 26, 1992", 1994ESASP.373..207W [ADS](#)
- Roudier, T., Espagnet, O., Muller, R., & Vigneau, J., "Peculiar interactions between granules and network bright points in the solar photosphere", 1994A&A...287..982R [ADS](#)
- Espagnet, O., Muller, R., Roudier, T., & Mein, N., "Turbulent power spectra of solar granulation.", 1993A&A...271..589E [ADS](#)
- Espagnet, O., Muller, R., Roudier, T., Mein, N., & Mein, P., "Dynamique de la photosphère solaire: granulation, mésogranulation, oscillations.", 1992JAF...43...36E [ADS](#)
- Espagnet, O., Muller, R., & Roudier, T., "Turbulence et granulation solaire.", 1992JAF...43...35E [ADS](#)
- Muller, R., Auffret, H., Roudier, T., et al., "Evolution and advection of solar mesogranulation", 1992Natur.356..322M [ADS](#)
- Malherbe, J. M., Coutard, C., & Roudier, T., "La fondation de l'observatoire et les débuts de l'astronomie au Pic du Midi (1852 - 1947). Dernière partie: Le règne de la coupole Baillaud.", 1991LAstr.105R...1M [ADS](#)
- Malherbe, J. M., Coutard, C., & Roudier, T., "La fondation de l'observatoire et les débuts de l'astronomie au Pic du Midi (1852 - 1947). Deuxième partie: L'introduction de l'astronomie.", 1991LAstr.105Q...1M [ADS](#)
- Malherbe, J. M., Coutard, C., & Roudier, T., "La fondation de l'observatoire et les débuts de l'astronomie au Pic du Midi (1852 - 1947). Introduction. Première partie: La fondation de l'observatoire.", 1991LAstr.105...6M [ADS](#)
- Roudier, T., Vigneau, J., Espagnet, O., et al., "Dynamics of the solar granulation. II - Statistical analysis: Power spectra, coherence, phase", 1991A&A...248..245R [ADS](#)
- Roudier, T., Vigneau, J., Mein, P., et al., "Dynamics of solar granulation. I - Processing of MSDP spectra", 1991A&A...248..237R [ADS](#)
- Roudier, T., "La granulation solaire dans les régions calmes et actives.", 1990LAstr.104..345R [ADS](#)
- Frank, Z., Muller, R., Roudier, T., et al., "Proper Motion and Lifetime of Meso-granules", 1989BAAS...21..841F [ADS](#)
- Roudier, T., Muller, R., Hulot, J. C., & Vaissière, F., "Amateur/professional Cooperation in 2 Solar Studies", 1988scaa.conf..168R [ADS](#)
- Roudier, T., "Structures fines de la photosphère solaire.", 1987JAF...29...14R [ADS](#)
- Roudier, T., Coupinot, G., Hecquet, J., & Muller, R., "Digital filtering of low-contrast images with the possibility of structural analysis by segmentation in connected domains", 1985JOpt...16..107R [ADS](#)
- Muller, R. & Roudier, T., "Variability of the quiet photospheric network.", 1984ESASP.220..239M [ADS](#)
- Muller, R. & Roudier, T., "Variability of the structure of the granulation over the solar activity cycle.", 1984ESASP.220..51M [ADS](#)
- Macris, C. J., Müller, R., Rosch, J., & Roudier, T., "Variation of the Mesh of the Granular Network Along the Solar Cycle", 1984ssdp.conf..265M [ADS](#)
- Carnevali, P., Diethelm, R., Figer, A., et al., "Lists of minima of eclipsing binaries.", 1975BBSAG..19....1C [ADS](#)