

1. Ajabshirizadeh A, Vial J-C, Fathi-Vavsari H, Ebadi H. **The Reversal Behavior of Some Hydrogen Lyman Lines in Solar Spicules.** *37th COSPAR Scientific Assembly.* Vol 372008:42.
2. Amblard PO, Moussaoui S, de Wit TD, Abouadarham J, Kretzschmar M, Liliensten J, Auchere F. **The EUV Sun as the superposition of elementary Suns.** *Astronomy & Astrophysics.* Aug 2008;487(2):L13-L16.
3. Appourchaux T. **Bayesian approach for g-mode detection, or how to restrict our imagination.** *Astronomische Nachrichten.* May 2008;329(5):485-489.
4. Appourchaux T, Michel E, Auvergne M, Baglin A, Toutain T, Baudin F, Benomar O, Chaplin WJ, Deheuvels S, Samadi R, Verner GA, Boumier P, Garcia RA, Mosser B, Hulot JC, Ballot J, Barban C, Elsworth Y, Jimenez-Reyes SJ, Kjeldsen H, Regulo C, Roxburgh IW. **CoRoT sounds the stars: p-mode parameters of Sun-like oscillations on HD 49933.** *Astronomy & Astrophysics.* Sep 2008;488(2):705-714.
5. Arentoft T, Kjeldsen H, Bedding TR, Bazot M, Christensen-Dalsgaard J, Dall TH, Karoff C, Carrier F, Eggenberger P, Sosnowska D, Wittenmyer RA, Endl M, Metcalfe TS, Hekker S, Reffert S, Butler RP, Bruntt H, Kiss LL, O'Toole SJ, Kambe E, Ando H, Izumiura H, Sato B, Hartmann M, Hatzes A, Bouchy F, Mosser B, Appourchaux T, Barban C, Berthomieu G, Garcia RA, Michel E, Provost J, Turck-Chieze S, Martic M, Lebrun JC, Schmitt J, Bertaux JL, Bonanno A, Benatti S, Claudi RU, Cosentino R, Leccia S, Frandsen S, Brogaard K, Glowienka L, Grundahl F, Stempels E. **A MULTISITE CAMPAIGN TO MEASURE SOLAR-LIKE OSCILLATIONS IN PROCYON. I. OBSERVATIONS, DATA REDUCTION, AND SLOW VARIATIONS.** *Astrophysical Journal.* Nov 2008;687(2):1180-1190.
6. Auchere F, Soubrie E, Bocchialini K, LeGall F. **FESTIVAL: A multiscale visualization tool for solar imaging data.** *Solar Physics.* Apr 2008;248(2):213-224.
7. Ballot J, Appourchaux T, Toutain T. **Effect of the stellar inclination angle upon theoretical errors of l=1 p-mode parameters.** *Astronomische Nachrichten.* May 2008;329(5):558-561.
8. Ballot J, Appourchaux T, Toutain T, Guittet M. **On deriving p-mode parameters for inclined solar-like stars.** *Astronomy & Astrophysics.* Aug 2008;486(3):867-875.
9. Barbey N, Auchere F, Rodet T, Vial JC. **A time-evolving 3D method dedicated to the reconstruction of solar plumes and results using extreme ultraviolet data.** *Solar Physics.* Apr 2008;248(2):409-423.
10. Baudin F, Appourchaux T, Boumier P, Kuschnig R, Leibacher JW, Matthews JM. **Searching for p-modes in MOST Procyon data: another view.** *Astronomy & Astrophysics.* Feb 2008;478(2):461-465.
11. Benomar O. **An application of Bayesian inference for solar-like pulsators.** *Communications in Asteroseismology.* December 1, 2008 2008;157:98-103.
12. Bigot B, Galtier S, Politano H. **Development of anisotropy in incompressible magnetohydrodynamic turbulence.** *Physical Review E.* Dec 2008;78(6).
13. Bigot B, Galtier S, Politano H. **An anisotropic turbulent model for solar coronal heating.** *Astronomy & Astrophysics.* Oct 2008;490(1):325-337.
14. Bigot B, Galtier S, Politano H. **Energy decay laws in strongly anisotropic magnetohydrodynamic turbulence.** *Physical Review Letters.* Feb 2008;100(7).
15. Buchlin E, Vial J. **Properties of the quiet solar coronal transition region from full-Sun SoHO/SUMER S VI.** In: Peter H, ed. *European Solar Physics Meeting.* Vol 122008.
16. Burston R, Gizon L, Appourchaux T, Ni W-T, Team AIEcv-. **Detecting solar g modes with ASTROD.** *Journal of Physics Conference Series.* October 1, 2008 2008;118:2043.
17. Chaplin WJ, Appourchaux T, Arentoft T, Ballot J, Baudin F, Bazot M, Bedding TR, Christensen-Dalsgaard J, Creevey OL, Duez V, Elsworth Y, Fletcher ST, Garcia RA, Gough DO, Jimenez A, Jimenez-Reyes SJ, Houdek G, Kjeldsen H, Lazrek M, Leibacher JW, Monteiro MJPF, Neiner C, New R, Régulo C, Salabert D, Samadi R, Sekii T, Sousa SG, Toutain T, Turck-Chièze S.

- AsteroFLAG — from the Sun to the stars.** *Journal of Physics Conference Series*. October 1, 2008 **2008**;118:2048.
18. Chaplin WJ, Appourchaux T, Arentoft T, Ballot J, Christensen-Dalsgaard J, Creevey OL, Elsworth Y, Fletcher ST, Garcia RA, Houdek G, Jimenez-Reyes SJ, Kjeldsen H, New R, Regulo C, Salabert D, Sekii T, Sousa SG, Toutain T, Rest Astero FG. **AsteroFLAG: First results from hare-and-hounds Exercise #1.** *Astronomische Nachrichten*. May **2008**;329(5):549-557.
  19. Chaplin WJ, Houdek G, Appourchaux T, Elsworth Y, New R, Toutain T. **Challenges for asteroseismic analysis of Sun-like stars.** *Astronomy & Astrophysics*. Jul **2008**;485(3):813-822.
  20. Chaufray JY, Bertaux JL, Leblanc F, Quemerais E. **Observation of the hydrogen corona with SPICAM on Mars Express.** *Icarus*. Jun **2008**;195(2):598-613.
  21. Combi MR, Makinen JTT, Henry NJ, Bertaux JL, Quemerais E. **Solar and heliospheric observatory/solar wind anisotropies observations of five moderately bright comets: 1999-2002.** *Astronomical Journal*. Apr **2008**;135(4):1533-1550.
  22. Corbard T, Boumier P, Appourchaux T, Jiménez-Reyes SJ, Gelly B, Team P. **Helioseismology program for the PICARD satellite.** *Astronomische Nachrichten*. June 1, 2008 **2008**;329:508-516.
  23. de Wit TD, Kretzschmar M, Aboudarham J, Amblard PO, Auchere F, Lilensten J. **Which solar EUV indices are best for reconstructing the solar EUV irradiance?** *Advances in Space Research*. Sep **2008**;42(5):903-911.
  24. Dolla L, Solomon J. **Solar off-limb line widths: Alfvén waves, ion-cyclotron waves, and preferential heating.** *Astronomy & Astrophysics*. May **2008**;483(1):271-283.
  25. Galtier S. **Exact scaling laws for 3D electron MHD turbulence.** *Journal of Geophysical Research-Space Physics*. Jan **2008**;113(A1).
  26. Galtier S. **von Karman-Howarth equations for Hall magnetohydrodynamic flows.** *Physical Review E*. Jan **2008**;77(1).
  27. Galtier S. **Magnetic fluctuation spectrum in the interplanetary medium.** In: Pogorelov NV, Audit E, Zank GP, eds. *Numerical Modeling of Space Plasma Flows: Astronom-2007*. Vol 3852008:25-30.
  28. Galtier S, Nazarenko SV. **Large-scale magnetic field sustainment by forced MHD wave turbulence.** *Journal of Turbulence*. **2008**;9(40):1-10.
  29. Gaulme P, Schmider F-X, Grec C, López Ariste A, Widemann T, Gelly B. **Venus wind map at cloud top level with the MTR/THEMIS visible spectrometer, I: Instrumental performance and first results.** *Planetary and Space Science*. August 1, 2008 **2008**;56:1335-1343.
  30. Gautier J, Delmotte F, Ravet MF, Jerome A, Bridou F, Varniere F, Auchere F. **Two channel multilayer mirrors for astrophysics.** *Optics Communications*. Jun **2008**;281(11):3032-3035.
  31. Gouttebroze P. **Radiative transfer in cylindrical threads with incident radiation - V. 2D transfer with 3D velocity fields.** *Astronomy & Astrophysics*. Sep **2008**;487(3):805-813.
  32. Hekker S, Arentoft T, Kjeldsen H, Bedding TR, Christensen-Dalsgaard J, Reffert S, Bruntt H, Butler RP, Kiss LL, O'Toole SJ, Kambe E, Ando H, Izumiura H, Sato B, Hartmann M, Hatzes AP, Appourchaux T, Barban C, Berthomieu G, Bouchy F, García RA, Lebrun J-C, Martić M, Michel E, Mosser B, Nghiem PAP, Provost J, Samadi R, Thévenin F, Turck-Chièze S, Bonanno SA, Benatti S, Claudi RU, Cosentino R, Leccia S, Frandsen S, Brogaard K, Grundahl F, Stempels HC, Bazot M, Dall TH, Karoff C, Carrier F, Eggenberger P, Sosnowska D, Wittenmyer RA, Endl M, Metcalfe TS. **Oscillations in Procyon A: First results from a multi-site campaign.** *Journal of Physics Conference Series*. October 1, 2008 **2008**;118:2059.
  33. Howard RA, Moses JD, Vourlidas A, Newmark JS, Socker DG, Plunkett SP, Korendyke CM, Cook JW, Hurley A, Davila JM, Thompson WT, St Cyr OC, Mentzell E, Mehalick K, Lemen JR, Wuelser JP, Duncan DW, Tarbell TD, Wolfson CJ, Moore A, Harrison RA, Waltham NR, Lang J, Davis CJ, Eyles CJ, Mapson-Menard H, Simnett GM, Halain JP, Defise JM, Mazy E, Rochus P, Mercier R, Ravet MF, Delmotte F, Auchere F, Delaboudiniere JP, Bothmer V, Deutsch W, Wang D, Rich N, Cooper S, Stephens V, Maahs G, Bough R, McMullin D, Carter T. **Sun Earth Connection Coronal and Heliospheric Investigation (SECCHI).** *Space Science Reviews*. Apr **2008**;136(1-4):67-115.

34. Jimenez-Reyes SJ, Chaplin WJ, Garcia RA, Appourchaux T, Baudin F, Boumier P, Elsworth Y, Fletcher ST, Lazrek M, Leibacher JW, Lochard J, New R, Regulo C, Salabert D, Toutain T, Verner GA, Wachter R. **solarFLAG hare and hounds: estimation of p-mode frequencies from Sun-as-star helioseismology data.** *Monthly Notices of the Royal Astronomical Society.* Oct 2008;389(4):1780-1790.
35. Labrosse N, Vial C, Gouttebroze P. **Diagnostics of active and eruptive prominences through hydrogen and helium lines modelling.** *Annales Geophysicae.* 2008;26(10):2961-2965.
36. Labrosse N, Vial J-C. **The Lyman-alpha Line in Active and Eruptive Solar Prominences.** In: Peter H, ed. *European Solar Physics Meeting.* Vol 122008.
37. Liliensten J, de Wit TD, Kretzschmar M, Amblard PO, Moussaoui S, Abouadarham J, Auchere F. **Review on the solar spectral variability in the EUV for space weather purposes.** *Annales Geophysicae.* 2008;26(2):269-279.
38. Michel E, Baglin A, Auvergne M, Catala C, Samadi R, Baudin F, Appourchaux T, Barban C, Weiss WW, Berthomieu G, Boumier P, Dupret MA, Garcia RA, Fridlund M, Garrido R, Goupil MJ, Kjeldsen H, Lebreton Y, Mosser B, Grottsch-Noels A, Janot-Pacheco E, Provost J, Roxburgh IW, Thoul A, Toutain T, Tiphene D, Turck-Chieze S, Vauclair SD, Vauclair GP, Aerts C, Alecian G, Ballot J, Charpinet S, Hubert AM, Lignieres F, Mathias P, Monteiro M, Neiner C, Poretti E, de Medeiros JR, Ribas I, Rieutord ML, Cortes TR, Zwintz K. **CoRoT measures solar-like oscillations and granulation in stars hotter than the Sun.** *Science.* Oct 2008;322(5901):558-560.
39. Mosser B, Appourchaux T, Catala C, Buey J-T, Team S. **SIAMOIS: Seismic Interferometer to Measure Oscillations in the Interior of Stars.** *Journal of Physics Conference Series.* October 1, 2008 2008;118:2042.
40. Mosser B, Bouchy F, Martic M, Appourchaux T, Barban C, Berthomieu G, Garcia RA, Lebrun JC, Michel E, Provost J, Thevenin F, Turck-Chieze S. **Asteroseismology of Procyon with SOPHIE.** *Astronomy & Astrophysics.* Jan 2008;478(1):197-202.
41. Parenti S, Vial JC, Lemaire P. **Solar prominence properties derived from the UV-EUV SUMER spectral atlas.** *Advances in Space Research.* 2008;41(1):144-147.
42. Pryor W, Gangopadhyay P, Sandel B, Forrester T, Quemerais E, Moebius E, Esposito L, Stewart I, McClintock W, Jouchoux A, Colwell J, Izmodenov V, Malama Y, Tobiska K, Shemansky D, Ajello J, Hansen C, Bzowski M. **Radiation transport of heliospheric Lyman-alpha from combined Cassini and Voyager data sets.** *Astronomy & Astrophysics.* Nov 2008;491(1):21-28.
43. Quemerais E, Izmodenov V, Koutroumpa D, Malama Y. **Time dependent model of the interplanetary Lyman alpha glow: applications to the SWAN data.** *Astronomy & Astrophysics.* Sep 2008;488(1):351-359.
44. Salabert D, Leibacher JW, Appourchaux T. **Development of a new analysis technique to measure low radial-order p modes in spatially-resolved helioseismic data.** *Journal of Physics Conference Series.* October 1, 2008 2008;118:2086.
45. Trosseille C, Appourchaux T, Fourmond J-J. **Design of a Fabry-Perot interferometer for the SO/PHI instrument on Solar Orbiter.** *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series.* Vol 70102008:37.
46. Vial JC, Auchere F, Chang J, Fang C, Gan WQ, Klein KL, Prado JY, Rouesnel F, Semery A, Trottet G, Wang C. **SMESE (SMall Explorer for Solar Eruptions): A microsatellite mission with combined solar payload.** *Advances in Space Research.* 2008;41(1):183-189.
47. Vial J-C, Derouich M, Auchere F, Zhang M. **Polarisation and magnetic depolarization of the Lyman-alpha line in the corona : the line-of-sight effects.** *37th COSPAR Scientific Assembly.* Vol 372008:3340.
48. Appourchaux T, Burston R, Chen YB, Cruise M, Dittus H, Foulon B, Gill P, Gizon L, Klein H, Klioner S, Kopeikin S, Kruger H, Lammerzahn C, Lobo A, Luo XL, Margolis H, Ni WT, Paton AP, Peng QH, Peters A, Rasel E, Rudiger A, Samain E, Selig H, Shaul D, Sumner T, Theil S, Touboul P, Turyshev S, Wang HT, Wang L, Wen LQ, Wicht A, Wu J, Zhang XM, Zhao C. **Astrodynamical Space Test of Relativity Using Optical Devices I (ASTROD I)-A class-M fundamental physics**

- mission proposal for Cosmic Vision 2015-2025.** *Experimental Astronomy*. Mar 2009;23(2): 491-527.
49. Appourchaux T, Liewer P, Watt M, Alexander D, Andretta V, Auchere F, D'Arrigo P, Ayon J, Corbard T, Fineschi S, Finsterle W, Floyd L, Garbe G, Gizon L, Hassler D, Harra L, Kosovichev A, Leibacher J, Leipold M, Murphy N, Maksimovic M, Martinez-Pillet V, Matthews BSA, Mewaldt R, Moses D, Newmark J, Regnier S, Schmutz W, Socker D, Spadaro D, Stuttard M, Trosseille C, Ulrich R, Velli M, Vourlidas A, Wimmer-Schweingruber CR, Zurbuchen T. **POLAR investigation of the Sun-POLARIS.** *Experimental Astronomy*. Mar 2009;23(3):1079-1117.
  50. Appourchaux T, Samadi R, Dupret MA. **On posterior probability and significance level: application to the power spectrum of HD 49 933 observed by CoRoT.** *Astronomy & Astrophysics*. Oct 2009;506(1):1-5.
  51. Auvergne M, Bodin P, Boisnard L, Buey JT, Chaintreuil S, Epstein G, Jouret M, Lam-Trong T, Levacher P, Magnan A, Perez R, Plasson P, Plessier J, Peter G, Steller M, Tiphene D, Baglin A, Agogue P, Appourchaux T, Barbet D, Beaufort T, Bellenger R, Berlin R, Bernardi P, Blouin D, Boumier P, Bonneau F, Briet R, Butler B, Cautain R, Chiavassa F, Costes V, Cuvilho J, Cunha-Parro V, Fialho FD, Decaudin M, Defise JM, Djalal S, Docclo A, Drummond R, Dupuis O, Exil G, Faure C, Gaboriaud A, Gamet P, Gavalda P, Grolleau E, Gueguen L, Guivarc'h V, Guterman P, Hasiba J, Huntzinger G, Hustaix H, Imbert C, Jeanville G, Johlander B, Jorda L, Journoud P, Karioty F, Kerjean L, Lafond L, Lapeyrere V, Landiech P, Larque T, Laudet P, Le Merrer J, Leporati L, Leruyet B, Levieuge B, Llebaria A, Martin L, Mazy E, Mesnager JM, Michel JP, Moalic JP, Monjoin W, Naudet D, Neukirchner S, Nguyen-Kim K, Ollivier M, Orcesi JL, Ottacher H, Oulali A, Parisot J, Perruchot S, Piacentino A, da Silva LP, Platzer J, Pontet B, Pradines A, Quentin C, Rohbeck U, Rolland G, Rollenhagen F, Romagnan R, Russ N, Samadi R, Schmidt R, Schwartz N, Sebbag I, Smit H, Sunter W, Tello M, Toulouse P, Ulmer B, Vandermarcq O, Vergnault E, Wallner R, Waultier G, Zanatta P. **The CoRoT satellite in flight: description and performance.** *Astronomy & Astrophysics*. Oct 2009;506(1):411-424.
  52. Barban C, Deheuvels S, Baudin F, Appourchaux T, Auvergne M, Ballot J, Boumier P, Chaplin WJ, Garcia RA, Gaulme P, Michel E, Mosser B, Regulo C, Roxburgh IW, Verner G, Baglin A, Catala C, Samadi R, Bruntt H, Elsworth Y, Mathur S. **Solar-like oscillations in HD 181420: data analysis of 156 days of CoRoT data.** *Astronomy & Astrophysics*. Oct 2009;506(1):51-56.
  53. Barstow MA, Burleigh MR, Bannister NJ, Lapington JS, Kowalski MP, Cruddace RG, Wood KS, Auchere F, Bode MF, Bromage GE, Gibson B, Cameron AC, Cassatella A, Delmotte F, Ravet MF, Doyle JG, Jeffery CS, Gaensicke B, Jordan C, Kappelman N, Werner K, Lallement R, de Martino D, Matthews SA, Phillips KJH, Del Zanna G, Orio M, Pace E, Pagano I, Schmitt J, Welsh BY. **Stellar and galactic environment survey (SAGE).** *Astrophysics and Space Science*. Apr 2009;320(1-3):231-238.
  54. Barstow MA, Kowalski MP, Cruddace RG, Wood KS, Auchere F, Bannister NJ, Bode MF, Bromage GE, Burleigh MR, Cameron AC, Cassatella A, Delmotte F, Doyle JG, Gaensicke B, Gibson B, Jeffery CS, Jordan C, Kappelman N, Lallement R, Lapington JS, de Martino D, Matthews SA, Orio M, Pace E, Pagano I, Phillips KJH, Ravet MF, Schmitt J, Welsh BY, Werner K, Del Zanna G. **Stellar And Galactic Environment survey (SAGE).** *Experimental Astronomy*. Mar 2009;23(1):169-191.
  55. Belkacem K, Samadi R, Goupil MJ, Dupret MA, Brun AS, Baudin F. **Stochastic excitation of nonradial modes II. Are solar asymptotic gravity modes detectable?** *Astronomy & Astrophysics*. Jan 2009;494(1):191-204.
  56. Belkacem K, Samadi R, Goupil MJ, Lefevre L, Baudin F, Deheuvels S, Dupret MA, Appourchaux T, Scuflaire R, Auvergne M, Catala C, Michel E, Miglio A, Montalbán J, Thoul A, Talon S, Baglin A, Noels A. **Solar-Like Oscillations in a Massive Star.** *Science*. Jun 2009;324(5934):1540-1542.
  57. Benomar O, Appourchaux T, Baudin F. **The solar-like oscillations of HD 49933: a Bayesian approach.** *Astronomy & Astrophysics*. Oct 2009;506(1):15-32.
  58. Benomar O, Baudin F, Campante TL, Chaplin WJ, Garcia RA, Gaulme P, Toutain T, Verner GA, Appourchaux T, Ballot J, Barban C, Elsworth Y, Mathur S, Mosser B, Regulo C, Roxburgh IW, Auvergne M, Baglin A, Catala C, Michel E, Samadi R. **A fresh look at the seismic spectrum of**

- HD49933: analysis of 180 days of CoRoT photometry.** *Astronomy & Astrophysics*. Nov 2009;507(1):L13-U23.
59. Buchlin E, Vial JC. **Electron density in the quiet solar coronal transition region from SoHO/SUMER measurements of S VI line radiance and opacity.** *Astronomy & Astrophysics*. Aug 2009;503(2):559-568.
60. De Ridder J, Barban C, Baudin F, Carrier F, Hatzes AP, Hekker S, Kallinger T, Weiss WW, Baglin A, Auvergne M, Samadi R, Barge P, Deleuil M. **Non-radial oscillation modes with long lifetimes in giant stars.** *Nature*. May 2009;459(7245):398-400.
61. Derouich M, Auchere F, Vial JC, Millard AA. **Polarimetry of the L alpha Line for Coronal Magnetic Field Diagnostic.** In: Berdyugina SV, Nagendra KN, Ramelli R, eds. *Solar Polarization 5*. Vol 4052009:389-392.
62. Dias A, Bouvier D, Crepin T, McCarthy AA, Hart DJ, Baudin F, Cusack S, Ruigrok RWH. **The capsnatching endonuclease of influenza virus polymerase resides in the PA subunit.** *Nature*. Apr 2009;458(7240):914-918.
63. Dolla L, Solomon J. **Solar off-limb line widths with SUMER: revised value of the non-thermal velocity and new results.** *Annales Geophysicae*. 2009;27(9):3551-3558.
64. Ebadi H, Vial JC, Ajabshirizadeh A. **The He II Lines in the Lyman Series Profiles of Solar Prominences.** *Solar Physics*. Jun 2009;257(1):91-98.
65. Gabriel A, Bely-Dubau F, Tison E, Wilhelm K. **THE STRUCTURE AND ORIGIN OF SOLAR PLUMES: NETWORK PLUMES.** *Astrophysical Journal*. Jul 2009;700(1):551-558.
66. Galtier S. **Consequence of space correlation foliation for electron magnetohydrodynamic turbulence.** *Physics of Plasmas*. Nov 2009;16(11).
67. Galtier S. **EXACT VECTORIAL LAW FOR AXISYMMETRIC MAGNETOHYDRODYNAMICS TURBULENCE.** *Astrophysical Journal*. Oct 2009;704(2):1371-1384.
68. Galtier S. **Exact vectorial law for homogeneous rotating turbulence.** *Physical Review E*. Oct 2009;80(4).
69. Galtier S. **Wave turbulence in magnetized plasmas.** *Nonlinear Processes in Geophysics*. 2009;16(1):83-98.
70. Garcia RA, Regulo C, Samadi R, Ballot J, Barban C, Benomar O, Chaplin WJ, Gaulme P, Appourchaux T, Mathur S, Mosser B, Toutain T, Verner GA, Auvergne M, Baglin A, Baudin F, Boumier P, Bruntt H, Catala C, Deheuvels S, Elsworth Y, Jimenez-Reyes SJ, Michel E, Hernandez FP, Roxburgh IW, Salabert D. **Solar-like oscillations with low amplitude in the CoRoT target HD 181906.** *Astronomy & Astrophysics*. Oct 2009;506(1):41-50.
71. Gaulme P, Appourchaux T, Boumier P. **Mode width fitting with a simple Bayesian approach Application to CoRoT targets HD 181420 and HD 49933.** *Astronomy & Astrophysics*. Oct 2009;506(1):7-14.
72. Gosain S, Schmieder B, Venkatakrishnan P, Chandra R, Artzner G. **3D Evolution of a Filament Disappearance Event Observed by STEREO.** *Solar Physics*. Oct 2009;259(1-2):13-30.
73. Gouttebroze P, Labrosse N. **Radiative transfer in cylindrical threads with incident radiation VI. A hydrogen plus helium system.** *Astronomy & Astrophysics*. Sep 2009;503(3):663-671.
74. Hecquet C, Delmotte F, Ravet-Krill MF, de Rossi S, Jerome A, Bridou F, Varniere F, Meltchakov E, Auchere F, Giglia A, Mahne N, Nanaronne S. **Design and performance of two-channel EUV multilayer mirrors with enhanced spectral selectivity.** *Applied Physics a-Materials Science & Processing*. May 2009;95(2):401-408.
75. Hekker S, Kallinger T, Baudin F, De Ridder J, Barban C, Carrier F, Hatzes AP, Weiss WW, Baglin A. **Characteristics of solar-like oscillations in red giants observed in the CoRoT exoplanet field.** *Astronomy & Astrophysics*. Oct 2009;506(1):465-469.
76. Hernandez AG, Moya A, Michel E, Garrido R, Suarez JC, Rodriguez E, Amado PJ, Martin-Ruiz S, Rolland A, Poretti E, Samadi R, Baglin A, Auvergne M, Catala C, Lefevre L, Baudin F. **Asteroseismic analysis of the CoRoT delta Scuti star HD 174936.** *Astronomy & Astrophysics*. Oct 2009;506(1):79-83.
77. Huat AL, Hubert AM, Baudin F, Floquet M, Neiner C, Fremat Y, Gutierrez-Soto J, Andrade L, de Batz B, Diago PD, Emilio M, Lara FE, Fabregat J, Janot-Pacheco E, Leroy B, Martayan C,

- Semaan T, Suso J, Auvergne M, Catala C, Michel E, Samadi R. **The B0.5IVe CoRoT target HD 49330 I. Photometric analysis from CoRoT data.** *Astronomy & Astrophysics*. Oct **2009**;506(1): 95-101.
78. Kretzschmar M, de Wit TD, Liliensten J, Hochedez JF, Aboudarham J, Amblard PO, Auchere F, Moussaoui S. **Solar EUV/FUV irradiance variations: analysis and observational strategy.** *Acta Geophysica*. Mar **2009**;57(1):42-51.
79. Lanza AF, Pagano I, Leto G, Messina S, Aigrain S, Alonso R, Auvergne M, Baglin A, Barge P, Bonomo AS, Boumier P, Cameron AC, Comparato M, Cutispoto G, De Medeiros JR, Foing B, Kaiser A, Moutou C, Parihar PS, Silva-Valio A, Weiss WW. **Magnetic activity in the photosphere of CoRoT-Exo-2a Active longitudes and short-term spot cycle in a young Sun-like star.** *Astronomy & Astrophysics*. Jan **2009**;493(1):193-200.
80. Leger A, Rouan D, Schneider J, Barge P, Fridlund M, Samuel B, Ollivier M, Guenther E, Deleuil M, Deeg HJ, Auvergne M, Alonso R, Aigrain S, Alapini A, Almenara JM, Baglin A, Barbieri M, Bruntt H, Borde P, Bouchy F, Cabrera J, Catala C, Carone L, Carpano S, Csizmadia S, Dvorak R, Erikson A, Ferraz-Mello S, Foing B, Fressin F, Gandolfi D, Gillon M, Gondoin P, Grasset O, Guillot T, Hatzes A, Hebrard G, Jorda L, Lammer H, Llebaria A, Loeillet B, Mayor M, Mazeh T, Moutou C, Patzold M, Pont F, Queloz D, Rauer H, Renner S, Samadi R, Shporer A, Sotin C, Tingley B, Wuchterl G, Adda M, Agogu P, Appourchaux T, Ballans H, Baron P, Beaufort T, Bellenger R, Berlin R, Bernardi P, Blouin D, Baudin F, Bodin P, Boissard L, Boit L, Bonneau F, Borzeix S, Briet R, Buey JT, Butler B, Cailleau D, Cautain R, Chabaud PY, Chaintreuil S, Chiavassa F, Costes V, Parrho VC, Fialho FD, Decaudin M, Defise JM, Djatal S, Epstein G, Exil GE, Faure C, Fenouillet T, Gaboriaud A, Gallic A, Gamet P, Gavalda P, Grolleau E, Gruneisen R, Gueguen L, Guis V, Guivarc'h V, Guterman P, Hallouard D, Hasiba J, Heuripeau F, Huntzinger G, Hustaix H, Imad C, Imbert C, Johlander B, Jouret M, Journoud P, Karioty F, Kerjean L, Lafaille V, Lafond L, Lam-Trong T, Landiech P, Lapeyrere V, Larque T, Laudet P, Lautier N, Lecann H, Lefevre L, Leruyet B, Levacher P, Magnan A, Mazy E, Mertens F, Mesnager JM, Meunier JC, Michel JP, Monjoin W, Naudet D, Nguyen-Kim K, Orcesi JL, Ottacher H, Perez R, Peter G, Plasson P, Plessier JY, Pontet B, Pradines A, Quentin C, Reynaud JL, Rolland G, Rollenhagen F, Romagnan R, Russ N, Schmidt R, Schwartz N, Sebbag I, Sedes G, Smit H, Steller MB, Sunter W, Surace C, Tello M, Tiphene D, Toulouse P, Ulmer B, Vandermarcq O, Vergnault E, Vuillemin A, Zanatta P. **Transiting exoplanets from the CoRoT space mission VIII. CoRoT-7b: the first super-Earth with measured radius.** *Astronomy & Astrophysics*. Oct **2009**;506(1):287-302.
81. Li C, Dai Y, Vial JC, Owen CJ, Matthews SA, Tang YH, Fang C, Fazakerley AN. **Solar source of energetic particles in interplanetary space during the 2006 December 13 event.** *Astronomy & Astrophysics*. Sep **2009**;503(3):1013-1021.
82. Ludwig HG, Samadi R, Steffen M, Appourchaux T, Baudin F, Belkacem K, Boumier P, Goupil MJ, Michel E. **Hydrodynamical simulations of convection-related stellar micro-variability II. The enigmatic granulation background of the CoRoT target HD 49933.** *Astronomy & Astrophysics*. Oct **2009**;506(1):167-173.
83. Maceroni C, Montalbán J, Michel E, Harmanec P, Prsa A, Briquet M, Niemczura E, Morel T, Ladjal D, Auvergne M, Baglin A, Baudin F, Catala C, Samadi R, Aerts C. **HD 174884: a strongly eccentric, short-period early-type binary system discovered by CoRoT.** *Astronomy & Astrophysics*. Dec **2009**;508(3):1375-1389.
84. Mazumdar A, Merand A, Demarque P, Kervella P, Barban C, Baudin F, du Foresto VC, Farrington C, Goldfinger PJ, Goupil MJ, Josselin E, Kuschnig R, McAlister HA, Matthews J, Ridgway ST, Sturmann J, Sturmann L, ten Brummelaar TA, Turner N. **Asteroseismology and interferometry of the red giant star epsilon Ophiuchi.** *Astronomy & Astrophysics*. Aug **2009**;503(2):521-531.
85. Michel E, Samadi R, Baudin F, Barban C, Appourchaux T, Auvergne M. **Intrinsic photometric characterisation of stellar oscillations and granulation Solar reference values and CoRoT response functions.** *Astronomy & Astrophysics*. Mar **2009**;495(3):979-987.

86. Miglio A, Montalbán J, Baudin F, Eggenberger P, Noels A, Hekker S, De Ridder J, Weiss W, Baglin A. **Probing populations of red giants in the galactic disk with CoRoT.** *Astronomy & Astrophysics*. Sep 2009;503(3):L21-L24.
87. Mosser B, Appourchaux T. **On detecting the large separation in the autocorrelation of stellar oscillation times series.** *Astronomy & Astrophysics*. Dec 2009;508(2):877-887.
88. Mosser B, Baudin F, Lanza AF, Houlot JC, Catala C, Baglin A, Auvergne M. **Short-lived spots in solar-like stars as observed by CoRoT.** *Astronomy & Astrophysics*. Oct 2009;506(1):245-254.
89. Mosser B, Buey T, Appourchaux T, Charpinet S, Mathias P, Schmider FX, Maillard JP, Team S. **SIAMOIS, ASTEROSEISMOLOGY AT DOME C AFTER COROT.** In: Spinoglio L, Epchtein N, eds. *3rd Arena Conference on an Astronomical Observatory at Concordia*. Vol 402009:381-387.
90. Mosser B, Michel E, Appourchaux T, Barban C, Baudin F, Boumier P, Bruntt H, Catala C, Deheuvels S, Garcia RA, Gaulme P, Regulo C, Roxburgh I, Samadi R, Verner G, Auvergne M, Baglin A, Ballot J, Benomar O, Mathur S. **The CoRoT target HD 175726: an active star with weak solar-like oscillations.** *Astronomy & Astrophysics*. Oct 2009;506(1):33-40.
91. Neiner C, Gutierrez-Soto J, Baudin F, de Batz B, Fremat Y, Huat AL, Floquet M, Hubert AM, Leroy B, Diago PD, Poretti E, Carrier F, Rainer M, Catala C, Thizy O, Buil C, Ribeiro J, Andrade L, Emilio M, Lara FE, Fabregat J, Janot-Pacheco E, Martayan C, Semaan T, Suso J, Baglin A, Michel E, Samadi R. **The pulsations of the B5IVe star HD 181231 observed with CoRoT and ground-based spectroscopy.** *Astronomy & Astrophysics*. Oct 2009;506(1):143-151.
92. Pick M, Kerdraon A, Auchere F, Stenborg G, Bouteille A, Soubrie E. **Coronal and Interplanetary Structures Associated with Type III Bursts.** *Solar Physics*. May 2009;256(1-2):101-110.
93. Poretti E, Michel E, Garrido R, Lefevre L, Mantegazza L, Rainer M, Rodriguez E, Uytterhoeven K, Amado PJ, Martin-Ruiz S, Moya A, Niemczura E, Suarez JC, Zima W, Baglin A, Auvergne M, Baudin F, Catala C, Samadi R, Alvarez M, Mathias P, Paparo M, Papics P, Plachy E. **HD 50844: a new look at delta Scuti stars from CoRoT space photometry.** *Astronomy & Astrophysics*. Oct 2009;506(1):85-93.
94. Salabert D, Leibacher J, Appourchaux T, Hill F. **MEASUREMENT OF LOW SIGNAL-TO-NOISE RATIO SOLAR p-MODES IN SPATIALLY RESOLVED HELIOSEISMIC DATA.** *Astrophysical Journal*. May 2009;696(1):653-667.
95. Stello D, Chaplin WJ, Bruntt H, Creevey OL, Garcia-Hernandez A, Monteiro M, Moya A, Quirion PO, Sousa SG, Suarez JC, Appourchaux T, Arentoft T, Ballot J, Bedding TR, Christensen-Dalsgaard J, Elsworth Y, Fletcher ST, Garcia RA, Houdek G, Jimenez-Reyes SJ, Kjeldsen H, New R, Regulo C, Salabert D, Toutain T. **RADIUS DETERMINATION OF SOLAR-TYPE STARS USING ASTEROSEISMOLOGY: WHAT TO EXPECT FROM THE KEPLER MISSION.** *Astrophysical Journal*. Aug 2009;700(2):1589-1602.
96. Tian H, Teriaca L, Curdt W, Vial JC. **HYDROGEN Ly alpha AND Ly beta RADIANCES AND PROFILES IN POLAR CORONAL HOLES.** *Astrophysical Journal Letters*. Oct 2009;703(2):L152-L156.
97. Verdini A, Velli M, Buchlin E. **TURBULENCE IN THE SUB-ALFVENIC SOLAR WIND DRIVEN BY REFLECTION OF LOW-FREQUENCY ALFVEN WAVES.** *Astrophysical Journal Letters*. Jul 2009;700(1):L39-L42.
98. Verdini A, Velli M, Buchlin E. **Reflection Driven MHD Turbulence in the Solar Atmosphere and Wind.** *Earth Moon and Planets*. Apr 2009;104(1-4):121-125.
99. Aerts C, Lefever K, Baglin A, Degroote P, Oreiro R, Vuckovic M, Smolders K, Acke B, Verhoelst T, Desmet M, Godart M, Noels A, Dupret MA, Auvergne M, Baudin F, Catala C, Michel E, Samadi R. **Periodic mass-loss episodes due to an oscillation mode with variable amplitude in the hot supergiant HD 50064.** *Astronomy & Astrophysics*. Apr 2010;513.
100. Appourchaux T, Belkacem K, Broomhall AM, Chaplin WJ, Gough DO, Houdek G, Provost J, Baudin F, Boumier P, Elsworth Y, Garcia RA, Andersen BN, Finsterle W, Frohlich C, Gabriel A, Grec G, Jimenez A, Kosovichev A, Sekii T, Toutain T, Turck-Chieze S. **The quest for the solar g modes.** *Astronomy and Astrophysics Review*. Feb 2010;18(1-2):197-277.

101. Artzner G, Gosain S, Schmieder B. **A Technique for Removing Background Features in SECCHI -aEuro parts per thousand EUVI He ii 304 Filtergrams: Application to the Filament Eruption of 22 May 2008.** *Solar Physics*. Apr 2010;262(2):437-447.
102. Barban C, Baudin F, Mosser B, Goupil MJ, De Ridder J, Samadi R, Weiss WW, Auvergne M, Baglin A, CoRo TRGT. **Frequency spacings of p-modes in red giants observed by CoRoT.** *Astronomische Nachrichten*. Dec 2010;331(9-10):1016-1019.
103. Bedding TR, Kjeldsen H, Campante TL, Appourchaux T, Bonanno A, Chaplin WJ, Garcia RA, Martic M, Mosser B, Butler RP, Bruntt H, Kiss LL, O'Toole SJ, Kambe E, Ando H, Izumiura H, Sato B, Hartmann M, Hatzes A, Barban C, Berthomieu G, Michel E, Provost J, Turck-Chieze S, Lebrun JC, Schmitt J, Bertaux JL, Benatti S, Claudi RU, Cosentino R, Leccia S, Frandsen S, Brogaard K, Glowienka L, Grundahl F, Stempels E, Arentoft T, Bazot M, Christensen-Dalsgaard J, Dall TH, Karoff C, Lundgreen-Nielsen J, Carrier F, Eggenberger P, Sosnowska D, Wittenmyer RA, Endl M, Metcalfe TS, Hekker S, Reffert S. **A MULTI-SITE CAMPAIGN TO MEASURE SOLAR-LIKE OSCILLATIONS IN PROCYON. II. MODE FREQUENCIES.** *Astrophysical Journal*. Apr 2010;713(2):935-949.
104. Belkacem K, Samadi R, Goupil MJ, Baudin F, Salabert D, Appourchaux T. **Turbulent eddy-time-correlation in the solar convective zone.** *Astronomy & Astrophysics*. Nov 2010;522.
105. Benomar O, Baudin F, Marques JP, Goupil MJ, Lebreton Y, Deheuvels S. **Spectrum analysis and seismic interpretation of a solar-like pulsator (HD 49933) observed by CoRoT.** *Astronomische Nachrichten*. Dec 2010;331(9-10):956-960.
106. Bigot B, Galtier S, Politano H. **Solar Coronal Heating via Alfvén Wave Turbulence.** In: Maksimovic M, Issautier K, MeyerVernet N, Moncuquet M, Pantellini F, eds. *Twelfth International Solar Wind Conference*. Vol 12162010:48-51.
107. Broomhall AM, Chaplin WJ, Elsworth Y, Appourchaux T, New R. **A comparison of frequentist and Bayesian inference: searching for low-frequency p modes and g modes in Sun-as-a-star data.** *Monthly Notices of the Royal Astronomical Society*. Aug 2010;406(2):767-781.
108. Buchlin É, Mercier C, Engin S, Parenti S, Vial J-C, Heydari-Malayeri M, Samadi R, Valls-Gabaud D. **Automated detection of filaments in SDO data.** In: Boissier S, ed. *SF2A-2010: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics*2010:297.
109. Carrier F, De Ridder J, Baudin F, Barban C, Hatzes AP, Hekker S, Kallinger T, Miglio A, Montalbán J, Morel T, Weiss WW, Auvergne M, Baglin A, Catala C, Michel E, Samadi R. **Non-radial oscillations in the red giant HR 7349 measured by CoRoT.** *Astronomy & Astrophysics*. Jan 2010;509.
110. Carrier F, Morel T, Miglio A, Montalbán J, Auvergne M, Baglin A, Baudin F, Barban C, Catala C, D'Antona F, De Ridder J, Eggenberger P, Hatzes AP, Hekker S, Kallinger T, Michel E, Noels A, Poretti E, Rainer M, Samadi R, Ventura P, Weiss WW. **The red-giant CoRoT target HR 7349.** *Astrophysics and Space Science*. Jul 2010;328(1-2):83-86.
111. Cessateur G, Kretschmar M, de Wit TD, Boumier P. **The Influence of Solar Flares on the Lower Solar Atmosphere: Evidence from the Na D Absorption Line Measured by GOLF/SOHO.** *Solar Physics*. May 2010;263(1-2):153-162.
112. Chaplin WJ, Appourchaux T, Elsworth Y, Garcia RA, Houdek G, Karoff C, Metcalfe TS, Molenda-Zakowicz J, Monteiro M, Thompson MJ, Brown TM, Christensen-Dalsgaard J, Gilliland RL, Kjeldsen H, Borucki WJ, Koch D, Jenkins JM, Ballot J, Basu S, Bazot M, Bedding TR, Benomar O, Bonanno A, Brandao IM, Bruntt H, Campante TL, Creevey OL, Di Mauro MP, Dogan G, Dreizler S, Eggenberger P, Esch L, Fletcher ST, Frandsen S, Gai N, Gaulme P, Handberg R, Hekker S, Howe R, Huber D, Korzennik SG, Lebrun JC, Leccia S, Martic M, Mathur S, Mosser B, New R, Quirion PO, Regulo C, Roxburgh IW, Salabert D, Schou J, Sousa SG, Stello D, Verner GA, Arentoft T, Barban C, Belkacem K, Benatti S, Biazzo K, Boumier P, Bradley PA, Broomhall AM, Buzasi DL, Claudi RU, Cunha MS, D'Antona F, Deheuvels S, Derekas A, Hernandez AG, Giampapa MS, Goupil MJ, Gruberbauer M, Guzik JA, Hale SJ, Ireland MJ, Kiss LL, Kitiashvili IN, Kolenberg K, Korhonen H, Kosovichev AG, Kupka F, Lebreton Y, Leroy B, Ludwig HG, Mathis S, Michel E, Miglio A, Montalbán J, Moya A, Noels A, Noyes RW, Palte PL, Piau L, Preston HL, Cortes TR, Roth M, Sato KH, Schmitt J, Serenelli AM, Aguirre VS, Stevens



- IR, Suarez JC, Suran MD, Trampedach R, Turck-Chieze S, Uytterhoeven K, Ventura R, Wilson PA. **THE ASTEROSEISMIC POTENTIAL OF KEPLER: FIRST RESULTS FOR SOLAR-TYPE STARS.** *Astrophysical Journal Letters*. Apr 2010;713(2):L169-L175.
113. Charpinet S, Green EM, Baglin A, van Grootel V, Fontaine G, Vauclair G, Chaintreuil S, Weiss WW, Michel E, Auvergne M, Catala C, Samadi R, Baudin F. **CoRoT opens a new era in hot B subdwarf asteroseismology Detection of multiple g-mode oscillations in KPD 0629-0016.** *Astronomy & Astrophysics*. Jun-Jul 2010;516.
114. Dai Y, Auchere F, Vial JC, Tang YH, Zong WG. **LARGE-SCALE EXTREME-ULTRAVIOLET DISTURBANCES ASSOCIATED WITH A LIMB CORONAL MASS EJECTION.** *Astrophysical Journal*. Jan 2010;708(2):913-919.
115. Degroote P, Aerts C, Baglin A, Miglio A, Briquet M, Noels A, Niemczura E, Montalbán J, Bloemen S, Oreiro R, Vuckovic M, Smolders K, Auvergne M, Baudin F, Catala C, Michel E. **Deviations from a uniform period spacing of gravity modes in a massive star.** *Nature*. Mar 2010;464(7286):259-261.
116. Degroote P, Aerts C, Samadi R, Miglio A, Briquet M, Auvergne M, Baglin A, Baudin F, Catala C, Michel E. **Asteroseismology of OB stars with CoRoT.** *Astronomische Nachrichten*. Dec 2010;331(9-10):1065-1068.
117. Degroote P, Briquet M, Auvergne M, Simon-Diaz S, Aerts C, Noels A, Rainer M, Hareter M, Poretti E, Mahy L, Oreiro R, Vuckovic M, Smolders K, Baglin A, Baudin F, Catala C, Michel E, Samadi R. **Detection of frequency spacings in the young O-type binary HD46149 from CoRoT photometry.** *Astronomy & Astrophysics*. Sep 2010;519.
118. Deheuvels S, Bruntt H, Michel E, Barban C, Verner G, Regulo C, Mosser B, Mathur S, Gaulme P, Garcia RA, Boumier P, Appourchaux T, Samadi R, Catala C, Baudin F, Baglin A, Auvergne M, Roxburgh IW, Hernandez FP. **Seismic and spectroscopic characterization of the solar-like pulsating CoRoT target HD 49385.** *Astronomy & Astrophysics*. Jun 2010;515.
119. Derouich M, Auchere F, Vial JC, Zhang M. **Hanle signatures of the coronal magnetic field in the linear polarization of the hydrogen L alpha line.** *Astronomy & Astrophysics*. Feb-Mar 2010;511.
120. Desmet M, Fremat Y, Baudin F, Harmanec P, Lampens P, Pacheco EJ, Briquet M, Degroote P, Neiner C, Mathias P, Poretti E, Rainer M, Uytterhoeven K, Amado PJ, Valtier JC, Prsa A, Maceroni C, Aerts C. **CoRoT photometry and high-resolution spectroscopy of the interacting eclipsing binary AU Monocerotis.** *Monthly Notices of the Royal Astronomical Society*. Jan 2010;401(1):418-432.
121. Fanjul CRD, Philippon A, Vial JC, Lemaire P, Maillard JP, Buisset C, Appourchaux T, Auchere F. **Definition of an imaging spectrometer meeting the needs of UV solar physics.** In: Arnaud M, Murray SS, Takahashi T, eds. *Space Telescopes and Instrumentation 2010: Ultraviolet to Gamma Ray*. Vol 77322010.
122. Galtier S. **Solar Wind Turbulence: New Questions and Possible Solutions.** In: Maksimovic M, Issautier K, MeyerVernet N, Moncuquet M, Pantellini F, eds. *Twelfth International Solar Wind Conference*. Vol 12162010:109-114.
123. Galtier S, Buchlin E. **NONLINEAR DIFFUSION EQUATIONS FOR ANISOTROPIC MAGNETOHYDRODYNAMIC TURBULENCE WITH CROSS-HELICITY.** *Astrophysical Journal*. Oct 2010;722(2):1977-1983.
124. Gaulme P, Deheuvels S, Weiss WW, Mosser B, Moutou C, Bruntt H, Donati JF, Vannier M, Guillot T, Appourchaux T, Michel E, Auvergne M, Samadi R, Baudin F, Catala C, Baglin A. **HD 46375: seismic and spectropolarimetric analysis of a young Sun hosting a Saturn-like planet.** *Astronomy & Astrophysics*. Dec 2010;524.
125. Gaulme P, Schmider F, Gay J. **First Clear Detection Of Jupiter Global Oscillations.** *Bulletin of the American Astronomical Society*. Vol 422010:1011.
126. Gaulme P, Vannier M, Guillot T, Mosser B, Mary D, Weiss WW, Schmider FX, Bourguignon S, Deeg HJ, Regulo C, Aigrain S, Schneider J, Bruntt H, Deheuvels S, Donati JF, Appourchaux T, Auvergne M, Baglin A, Baudin F, Catala C, Michel E, Samadi R. **Possible detection of phase**

- changes from the non-transiting planet HD 46375b by CoRoT.** *Astronomy & Astrophysics*. Jul-Aug **2010**;518.
- 127.** Gilliland RL, Brown TM, Christensen-Dalsgaard J, Kjeldsen H, Aerts C, Appourchaux T, Basu S, Bedding TR, Chaplin WJ, Cunha MS, De Cat P, De Ridder J, Guzik JA, Handler G, Kawaler S, Kiss L, Kolenberg K, Kurtz DW, Metcalfe TS, Monteiro M, Szabo R, Arentoft T, Balona L, Debosscher J, Elsworth YP, Quirion PO, Stello D, Suarez JC, Borucki WJ, Jenkins JM, Koch D, Kondo Y, Latham DW, Rowe JF, Steffen JH. **Kepler Asteroseismology Program: Introduction and First Results.** *Publications of the Astronomical Society of the Pacific*. Feb **2010**;122(888): 131-143.
- 128.** Halain J-P, Rochus P, Appourchaux T, Berghmans D, Harra L, Schühle U, Auchère F, Zhukov A, Renotte E, Defise J-M, Rossi L, Fleury-Frenette K, Jacques L, Hochedez J-F, Ben Moussa A. **The technical challenges of the Solar-Orbiter EUV instrument.** *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. Vol 77322010:20.
- 129.** Hekker S, Barban C, Baudin F, De Ridder J, Kallinger T, Morel T, Chaplin WJ, Elsworth Y. **Oscillation mode lifetimes of red giants observed during the initial and first anticentre long run of CoRoT.** *Astronomy & Astrophysics*. Sep-Oct **2010**;520.
- 130.** Kallinger T, Weiss WW, Barban C, Baudin F, Cameron C, Carrier F, De Ridder J, Goupil MJ, Gruberbauer M, Hatzes A, Hekker S, Samadi R, Deleuil M. **Oscillating red giants in the CoRoT exofield: asteroseismic mass and radius determination.** *Astronomy & Astrophysics*. Jan **2010**;509.
- 131.** Karoff C, Chaplin WJ, Appourchaux T, Elsworth Y, Garcia RA, Houdek G, Metcalfe TS, Molenda-Zakowicz J, Monteiro M, Thompson MJ, Christensen-Dalsgaard J, Gilliland RL, Kjeldsen H, Basu S, Bedding TR, Campante TL, Eggenberger P, Fletcher ST, Gaulme P, Handberg R, Hekker S, Martić M, Mathur S, Mosser B, Regulo C, Roxburgh IW, Salabert D, Stello D, Verner GA, Belkacem K, Biazzo K, Cunha MS, Gruberbauer M, Guzik JA, Kupka F, Leroy B, Ludwig HG, Mathis S, Noels A, Noyes RW, Cortes TR, Roth M, Sato KH, Schmitt J, Suran MD, Trampedach R, Uytterhoeven K, Ventura R, Wilson PA. **Asteroseismology of solar-type stars with Kepler I: Data analysis.** *Astronomische Nachrichten*. Dec **2010**;331(9-10): 972-976.
- 132.** Labrosse N, Heinzel P, Vial JC, Kucera T, Parenti S, Gunar S, Schmieder B, Kilper G. **Physics of Solar Prominences: I-Spectral Diagnostics and Non-LTE Modelling.** *Space Science Reviews*. Apr **2010**;151(4):243-332.
- 133.** Luftinger T, Frohlich HE, Weiss WW, Petit P, Auriere M, Nesvacil N, Gruberbauer M, Shulyak D, Alecian E, Baglin A, Baudin F, Catala C, Donati JF, Kochukhov O, Michel E, Piskunov N, Roudier T, Samadi R. **Surface structure of the CoRoT CP2 target star HD50773.** *Astronomy & Astrophysics*. Jan **2010**;509.
- 134.** Mathur S, Garcia RA, Catala C, Bruntt H, Mosser B, Appourchaux T, Ballot J, Creevey OL, Gaulme P, Hekker S, Huber D, Karoff C, Piau L, Regulo C, Roxburgh IW, Salabert D, Verner GA, Auvergne M, Baglin A, Chaplin WJ, Elsworth Y, Michel E, Samadi R, Sato K, Stello D. **The solar-like CoRoT target HD 170987: spectroscopic and seismic observations.** *Astronomy & Astrophysics*. Jul-Aug **2010**;518.
- 135.** Metcalfe TS, Monteiro M, Thompson MJ, Molenda-Zakowicz J, Appourchaux T, Chaplin WJ, Dogan G, Eggenberger P, Bedding TR, Bruntt H, Creevey OL, Quirion PO, Stello D, Bonanno A, Aguirre VS, Basu S, Esch L, Gai N, di Mauro MP, Kosovichev AG, Kitiashvili IN, Suarez JC, Moya A, Piau L, Garcia RA, Marques JP, Frasca A, Biazzo K, Sousa SG, Dreizler S, Bazot M, Karoff C, Frandsen S, Wilson PA, Brown TM, Christensen-Dalsgaard J, Gilliland RL, Kjeldsen H, Campante TL, Fletcher ST, Handberg R, Regulo C, Salabert D, Schou J, Verner GA, Ballot J, Broomhall AM, Elsworth Y, Hekker S, Huber D, Mathur S, New R, Roxburgh IW, Sato KH, White TR, Borucki WJ, Koch DG, Jenkins JM. **A PRECISE ASTEROSEISMIC AGE AND RADIUS FOR THE EVOLVED SUN-LIKE STAR KIC 11026764.** *Astrophysical Journal*. Nov **2010**;723(2): 1583-1598.
- 136.** Meyrand R, Galtier S. **A UNIVERSAL LAW FOR SOLAR-WIND TURBULENCE AT ELECTRON SCALES.** *Astrophysical Journal*. Oct **2010**;721(2):1421-1424.

137. Mosser B, Belkacem K, Goupil MJ, Miglio A, Morel T, Barban C, Baudin F, Hekker S, Samadi R, De Ridder J, Weiss W, Auvergne M, Baglin A. **Red-giant seismic properties analyzed with CoRoT.** *Astronomy & Astrophysics*. Jul 2010;517.
138. Petrosyan A, Balogh A, Goldstein ML, Leorat J, Marsch E, Petrovay K, Roberts B, von Steiger R, Vial JC. **Turbulence in the Solar Atmosphere and Solar Wind.** *Space Science Reviews*. Oct 2010;156(1-4):135-238.
139. Porquet D, Dubau J, Grosso N. **He-like ions as Practical Astrophysical Plasma Diagnostics: From Stellar Coronae to Active Galactic Nuclei.** *Space Science Reviews*. Dec 2010;157(1-4): 103-134.
140. Ruiz de Galarreta Fanjul C, Philippon A, Vial J-C, Lemaire P, Maillard J-P, Buisset C, Appourchaux T, Auchère F. **Definition of an imaging spectrometer meeting the needs of UV solar physics.** *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. Vol 77322010:99.
141. Samadi R, Ludwig HG, Belkacem K, Goupil MJ, Benomar O, Mosser B, Dupret MA, Baudin F, Appourchaux T, Michel E. **The CoRoT target HD 49933 II. Comparison of theoretical mode amplitudes with observations.** *Astronomy & Astrophysics*. Jan 2010;509.
142. Vial JC. **Space solar missions.** In: Kosovichev AG, Andrei AH, Rozelot JP, eds. *Solar and Stellar Variability: Impact on Earth and Planets*. Vol 52010:459-468.
143. Vial J-C, Andrei AH, Rozelot J-P. **Space solar missions.** In: Kosovichev AG, ed. *IAU Symposium*. Vol 2642010:459-468.
144. Aguirre VS, Chaplin WJ, Ballot J, Basu S, Bedding TR, Serenelli AM, Verner GA, Miglio A, Monteiro M, Weiss A, Appourchaux T, Bonanno A, Broomhall AM, Bruntt H, Campante TL, Casagrande L, Corsaro E, Elsworth Y, Garcia RA, Gaulme P, Handberg R, Hekker S, Huber D, Karoff C, Mathur S, Mosser B, Salabert D, Schonrich R, Sousa SG, Stello D, White TR, Christensen-Dalsgaard J, Gilliland RL, Kawaler SD, Kjeldsen H, Houdek G, Metcalfe TS, Molenda-Zakowicz J, Thompson MJ, Caldwell DA, Christiansen JL, Woehler B. **CONSTRUCTING A ONE-SOLAR-MASS EVOLUTIONARY SEQUENCE USING ASTEROSEISMIC DATA FROM KEPLER.** *Astrophysical Journal Letters*. Oct 2011;740(1).
145. Appourchaux T. A crash course on data analysis in asteroseismology. *ArXiv e-prints*. Vol 11032011:5352.
146. Auchère F, Rizzi J, Philippon A, Rochus P. **Minimization of the shadow patterns produced by periodic mesh grids in extreme ultraviolet telescopes.** *Journal of the Optical Society of America a-Optics Image Science and Vision*. Jan 2011;28(1):40-45.
147. Ballot J, Gizon L, Samadi R, Vauclair G, Benomar O, Bruntt H, Mosser B, Stahn T, Verner GA, Campante TL, Garcia RA, Mathur S, Salabert D, Gaulme P, Regulo C, Roxburgh IW, Appourchaux T, Baudin F, Catala C, Chaplin WJ, Deheuvels S, Michel E, Bazot M, Creevey O, Dolez N, Elsworth Y, Sato KH, Vauclair S, Auvergne M, Baglin A. **Accurate p-mode measurements of the G0V metal-rich CoRoT target HD 52265.** *Astronomy & Astrophysics*. Jun 2011;530.
148. Barbey N, Guennou C, Auchère F. **TomograPy: A Fast, Instrument-Independent, Solar Tomography Software.** *Solar Physics*. July 1, 2011 2011:181.
149. Baudin F, Barban C, Belkacem K, Hekker S, Morel T, Samadi R, Benomar O, Goupil MJ, Carrier F, Ballot J, Deheuvels S, De Ridder J, Hatzes AP, Kallinger T, Weiss WW. **Amplitudes and lifetimes of solar-like oscillations observed by CoRoT Red-giant versus main-sequence stars.** *Astronomy & Astrophysics*. May 2011;529.
150. Bedding TR, Mosser B, Huber D, Montalbán J, Beck P, Christensen-Dalsgaard J, Elsworth YP, Garcia RA, Miglio A, Stello D, White TR, De Ridder J, Hekker S, Aerts C, Barban C, Belkacem K, Broomhall AM, Brown TM, Buzasi DL, Carrier F, Chaplin WJ, Di Mauro MP, Dupret MA, Frandsen S, Gilliland RL, Goupil MJ, Jenkins JM, Kallinger T, Kawaler S, Kjeldsen H, Mathur S, Noels A, Aguirre VS, Ventura P. **Gravity modes as a way to distinguish between hydrogen- and helium-burning red giant stars.** *Nature*. Mar 2011;471(7340):608-611.
151. Belkacem K, Goupil MJ, Dupret MA, Samadi R, Baudin F, Noels A, Mosser B. **The underlying physical meaning of the  $v(\max)$ - $v(c)$  relation.** *Astronomy & Astrophysics*. Jun 2011;530.

152. Bentley RD, Csillaghy A, Aboudarham J, Jacquy C, Hapgood MA, Bocchialini K, Messerotti M, Brooke J, Gallagher P, Fox P, Hurlburt N, Roberts DA, Duarte LS. **HELIO: The Heliophysics Integrated Observatory**. *Advances in Space Research*. Jun 2011;47(12):2235-2239.
153. Bigot B, Galtier S. **Two-dimensional state in driven magnetohydrodynamic turbulence**. *Physical Review E*. Feb 2011;83(2).
154. Blomme R, Mahy L, Catala C, Cuypers J, Gosset E, Godart M, Montalbán J, Ventura P, Rauw G, Morel T, Degroote P, Aerts C, Noels A, Michel E, Baudin F, Baglin A, Auvergne M, Samadi R. **Variability in the CoRoT photometry of three hot O-type stars HD 46223, HD 46150, and HD 46966**. *Astronomy & Astrophysics*. Sep 2011;533.
155. Bocchialini K, Baudin F, Koutchmy S, Pouget G, Solomon J. **Oscillatory motions observed in eruptive filaments**. *Astronomy & Astrophysics*. Sep 2011;533.
156. Bommier V, Sahal-Brechot S, Dubau J, Cornille M. **The theoretical impact polarization of the O I 6300 angstrom red line of Earth aurorae**. *Annales Geophysicae*. 2011;29(1):71-79.
157. Briquet M, Aerts C, Baglin A, Nieva MF, Degroote P, Przybilla N, Noels A, Schiller F, Vuckovic M, Oreiro R, Smolders K, Auvergne M, Baudin F, Catala C, Michel E, Samadi R. **An asteroseismic study of the O9V star HD46202 from CoRoT space-based photometry**. *Astronomy & Astrophysics*. Mar 2011;527.
158. Buchlin E. **Intermittent turbulent dynamo at very low and high magnetic Prandtl numbers**. *Astronomy & Astrophysics*. Oct 2011;534.
159. Campante TL, Handberg R, Mathur S, Appourchaux T, Bedding TR, Chaplin WJ, Garcia RA, Mosser B, Benomar O, Bonanno A, Corsaro E, Fletcher ST, Gaulme P, Hekker S, Karoff C, Regulo C, Salabert D, Verner GA, White TR, Houdek G, Brandao IM, Creevey OL, Dogan G, Bazot M, Christensen-Dalsgaard J, Cunha MS, Elsworth Y, Huber D, Kjeldsen H, Lundkvist M, Molenda-Zakowicz J, Monteiro M, Stello D, Clarke BD, Girouard FR, Hall JR. **Asteroseismology from multi-month Kepler photometry: the evolved Sun-like stars KIC 10273246 and KIC 10920273**. *Astronomy & Astrophysics*. Oct 2011;534.
160. Catala C, Appourchaux T, Consortium PM. **PLATO : PLANetary Transits and Oscillations of stars**. *Journal of Physics Conference Series*. January 1, 2011 2011;271:2084.
161. Chane-Yook M, Dubau J. **Update of UCL computer codes for the calculation of fine-structure electron-atom collision cross-section**. *Computer Physics Communications*. Jan 2011;182(1): 134-135.
162. Chapellier E, Rodriguez E, Auvergne M, Uytterhoeven K, Mathias P, Bouabid MP, Poretti E, Le Contel D, Martin-Ruiz S, Amado PJ, Garrido R, Hareter M, Rainer M, Eyer L, Paparo M, Diaz-Fraile D, Baglin A, Baudin F, Catala C, Michel E, Samadi R. **The gamma Doradus CoRoT target HD 49434 II. Frequency analysis of the CoRoT data**. *Astronomy & Astrophysics*. Jan 2011;525.
163. Chaplin WJ, Bedding TR, Bonanno A, Broomhall AM, Garcia RA, Hekker S, Huber D, Verner GA, Basu S, Elsworth Y, Houdek G, Mathur S, Mosser B, New R, Stevens IR, Appourchaux T, Karoff C, Metcalfe TS, Molenda-Zakowicz J, Monteiro M, Thompson MJ, Christensen-Dalsgaard J, Gilliland RL, Kawaler SD, Kjeldsen H, Ballot J, Benomar O, Corsaro E, Campante TL, Gaulme P, Hale SJ, Handberg R, Jarvis E, Regulo C, Roxburgh IW, Salabert D, Stello D, Mullally F, Li J, Woher W. **EVIDENCE FOR THE IMPACT OF STELLAR ACTIVITY ON THE DETECTABILITY OF SOLAR-LIKE OSCILLATIONS OBSERVED BY KEPLER**. *Astrophysical Journal Letters*. May 2011;732(1).
164. Chaplin WJ, Kjeldsen H, Bedding TR, Christensen-Dalsgaard J, Gilliland RL, Kawaler SD, Appourchaux T, Elsworth Y, Garcia RA, Houdek G, Karoff C, Metcalfe TS, Molenda-Zakowicz J, Monteiro M, Thompson MJ, Verner GA, Batalha N, Borucki WJ, Brown TM, Bryson ST, Christiansen JL, Clarke BD, Jenkins JM, Klaus TC, Koch D, An D, Ballot J, Basu S, Benomar O, Bonanno A, Broomhall AM, Campante TL, Corsaro E, Creevey OL, Esch L, Gai N, Gaulme P, Hale SJ, Handberg R, Hekker S, Huber D, Mathur S, Mosser B, New R, Pinsonneault MH, Pricopi D, Quirion PO, Regulo C, Roxburgh IW, Salabert D, Stello D, Suran MD. **PREDICTING THE DETECTABILITY OF OSCILLATIONS IN SOLAR-TYPE STARS OBSERVED BY KEPLER**. *Astrophysical Journal*. May 2011;732(1).

165. Chaplin WJ, Kjeldsen H, Christensen-Dalsgaard J, Basu S, Miglio A, Appourchaux T, Bedding TR, Elsworth Y, Garcia RA, Gilliland RL, Girardi L, Houdek G, Karoff C, Kawaler SD, Metcalfe TS, Molenda-Zakowicz J, Monteiro M, Thompson MJ, Verner GA, Ballot J, Bonanno A, Brandao IM, Broomhall AM, Bruntt H, Campante TL, Corsaro E, Creevey OL, Dogan G, Esch L, Gai N, Gaulme P, Hale SJ, Handberg R, Hekker S, Huber D, Jimenez A, Mathur S, Mazumdar A, Mosser B, New R, Pinsonneault MH, Pricopi D, Quirion PO, Regulo C, Salabert D, Serenelli AM, Aguirre VS, Sousa SG, Stello D, Stevens IR, Suran MD, Uytterhoeven K, White TR, Borucki WJ, Brown TM, Jenkins JM, Kinemuchi K, Van Cleve J, Klaus TC. **Ensemble Asteroseismology of Solar-Type Stars with the NASA Kepler Mission.** *Science*. Apr 2011;332(6026):213-216.
166. Degroote P, Acke B, Samadi R, Aerts C, Kurtz DW, Noels A, Miglio A, Montalbán J, Bloemen S, Baglin A, Baudin F, Catala C, Michel E, Auvergne M. **CoRoT's view on variable B8/9 stars: spots versus pulsations Evidence for differential rotation in HD174648.** *Astronomy & Astrophysics*. Dec 2011;536.
167. Fanjul CRD, Philippon A, Vial JC, Maillard JP, Appourchaux T. **Metrology for an Imaging Fourier Transform Spectrometer working in the far UV (IFTSUV).** In: Duparre A, Geyl R, eds. *Optical Fabrication, Testing, and Metrology Iv*. Vol 81692011.
168. Galtier S. **Third-order Elsasser moments in axisymmetric MHD turbulence.** *Comptes Rendus Physique*. Mar 2011;12(2):151-159.
169. Galtier S, Banerjee S. **Exact Relation for Correlation Functions in Compressible Isothermal Turbulence.** *Physical Review Letters*. Sep 2011;107(13).
170. Gandorfer A, Solanki SK, Woch J, Martínez Pillet V, Álvarez Herrero A, Appourchaux T. **The Solar Orbiter Mission and its Polarimetric and Helioseismic Imager (SO/PHI).** *Journal of Physics Conference Series*. January 1, 2011 2011;271:2086.
171. Garcia RA, Hekker S, Stello D, Gutierrez-Soto J, Handberg R, Huber D, Karoff C, Uytterhoeven K, Appourchaux T, Chaplin WJ, Elsworth Y, Mathur S, Ballot J, Christensen-Dalsgaard J, Gilliland RL, Houdek G, Jenkins JM, Kjeldsen H, McCauliff S, Metcalfe T, Middour CK, Molenda-Zakowicz J, Monteiro M, Smith JC, Thompson MJ. **Preparation of Kepler light curves for asteroseismic analyses.** *Monthly Notices of the Royal Astronomical Society*. Jun 2011;414(1):L6-L10.
172. Gaulme P. **Study of the planetary system HD 46375 with CoRoT and ground-based support.** *IAC Talks, Astronomy and Astrophysics Seminars from the Instituto de Astrofísica de Canarias2011*:226.
173. Gaulme P, Schmider FX, Gay J, Guillot T, Jacob C. **Detection of Jovian seismic waves: a new probe of its interior structure.** *Astronomy & Astrophysics*. Jul 2011;531.
174. Gaulme P, Schmider F-X, Guillot T, Gay J. **Evidence of Jovian acoustic global modes.** *EPSC-DPS Joint Meeting 2011*2011:256.
175. Gopalswamy N, Davila JM, Auchere F, Schou J, Korendyke C, Shih A, Johnston JC, MacDowall RJ, Maksimovic M, Sittler E, Szabo A, Wesenberg R, Vennerstrom S, Heber B. **Earth-Affecting Solar Causes Observatory (EASCO): A mission at the Sun-Earth L5.** In: Fineschi S, Fennelly J, eds. *Solar Physics and Space Weather Instrumentation Iv*. Vol 81482011.
176. Gunar S, Parenti S, Anzer U, Heinzel P, Vial JC. **Synthetic differential emission measure curves of prominence fine structures II. The SoHO/SUMER prominence of 8 June 2004.** *Astronomy & Astrophysics*. Nov 2011;535.
177. Huang J, Demoulin P, Pick M, Auchere F, Yan YH, Bouteille A. **INITIATION AND EARLY DEVELOPMENT OF THE 2008 APRIL 26 CORONAL MASS EJECTION.** *Astrophysical Journal*. Mar 2011;729(2).
178. Huber D, Bedding TR, Stello D, Hekker S, Mathur S, Mosser B, Verner GA, Bonanno A, Buzasi DL, Campante TL, Elsworth YP, Hale SJ, Kallinger T, Silva Aguirre V, Chaplin WJ, De Ridder J, García RA, Appourchaux T, Frandsen S, Houdek G, Molenda-Zakowicz J, Monteiro MJPF, Christensen-Dalsgaard J, Gilliland RL, Kawaler SD, Kjeldsen H, Broomhall AM, Corsaro E, Salabert D, Sanderfer DT, Seader SE, Smith JC. **Testing Scaling Relations for Solar-like Oscillations from the Main Sequence to Red Giants Using Kepler Data.** *The Astrophysical Journal*. December 1, 2011 2011;743:143.

179. Ivanov IA, Kheifets AS, Dubau J. **On the account of final state correlation in double ionization processes.** *European Physical Journal D*. Feb 2011;61(3):563-569.
180. Mahy L, Gosset E, Baudin F, Rauw G, Godart M, Morel T, Degroote P, Aerts C, Blomme R, Cuypers J, Noels A, Michel E, Baglin A, Auvergne M, Catala C, Samadi R. **Plaskett's star: analysis of the CoRoT photometric data.** *Astronomy & Astrophysics*. Jan 2011;525.
181. Mathur S, Handberg R, Campante TL, García RA, Appourchaux T, Bedding TR, Mosser B, Chaplin WJ, Ballot J, Benomar O, Bonanno A, Corsaro E, Gaulme P, Hekker S, Régulo C, Salabert D, Verner G, White TR, Brandão IM, Creevey OL, Doğan G, Elsworth Y, Huber D, Hale SJ, Houdek G, Karoff C, Metcalfe TS, Molenda-Żakowicz J, Monteiro MJPF, Thompson MJ, Christensen-Dalsgaard J, Gilliland RL, Kawaler SD, Kjeldsen H, Quintana EV, Sanderfer DT, Seader SE. **Solar-like Oscillations in KIC 11395018 and KIC 11234888 from 8 Months of Kepler Data.** *The Astrophysical Journal*. June 1, 2011 2011;733:95.
182. Meyrand R, Galtier S. **Three-dimensional Hall Magnetohydrodynamics Turbulence.** In: Pogorelov NV, Font JA, Audit E, Zank GP, eds. *Numerical Modeling of Space Plasma Flows: Astronom-2011*. Vol 4592011:28-33.
183. Mosser B, Barban C, Montalbán J, Beck PG, Miglio A, Belkacem K, Goupil MJ, Hekker S, De Ridder J, Dupret MA, Elsworth Y, Noels A, Baudin F, Michel E, Samadi R, Auvergne M, Baglin A, Catala C. **Mixed modes in red-giant stars observed with CoRoT.** *Astronomy & Astrophysics*. Aug 2011;532.
184. Mosser B, Belkacem K, Goupil MJ, Michel E, Elsworth Y, Barban C, Kallinger T, Hekker S, De Ridder J, Samadi R, Baudin F, Pinheiro FJG, Auvergne M, Baglin A, Catala C. **The universal red-giant oscillation pattern An automated determination with CoRoT data.** *Astronomy & Astrophysics*. Jan 2011;525.
185. Papics PI, Briquet M, Auvergne M, Aerts C, Degroote P, Niemczura E, Vuckovic M, Smolders K, Poretti E, Rainer M, Hareter M, Baglin A, Baudin F, Catala C, Michel E, Samadi R. **CoRoT high-precision photometry of the B0.5 IV star HD 51756.** *Astronomy & Astrophysics*. Apr 2011;528.
186. Poretti E, Rainer M, Weiss WW, Bogner Z, Moya A, Niemczura E, Suarez JC, Auvergne M, Baglin A, Baudin F, Benko JM, Debosscher J, Garrido R, Mantegazza L, Paparo M. **Monitoring a high-amplitude delta Scuti star for 152 days: discovery of 12 additional modes and modulation effects in the light curve of CoRoT 101155310.** *Astronomy & Astrophysics*. Apr 2011;528.
187. Ruiz de Galarreta Fanjul C, Philippon A, Vial J-C, Maillard J-P, Appourchaux T. **Metrology for an imaging Fourier transform spectrometer working in the far-UV (IFTSUV).** *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. Vol 81692011:6.
188. Silva Aguirre V, Chaplin WJ, Ballot J, Basu S, Bedding TR, Serenelli AM, Verner GA, Miglio A, Monteiro MJPF, Weiss A, Appourchaux T, Bonanno A, Broomhall AM, Bruntt H, Campante TL, Casagrande L, Corsaro E, Elsworth Y, García RA, Gaulme P, Handberg R, Hekker S, Huber D, Karoff C, Mathur S, Mosser B, Salabert D, Schönrich R, Sousa SG, Stello D, White TR, Christensen-Dalsgaard J, Gilliland RL, Kawaler SD, Kjeldsen H, Houdek G, Metcalfe TS, Molenda-Żakowicz J, Thompson MJ, Caldwell DA, Christiansen JL, Woher B. **Constructing a One-solar-mass Evolutionary Sequence Using Asteroseismic Data from Kepler.** *The Astrophysical Journal Letters*. October 1, 2011 2011;740:L2.
189. Soulat L, Schmider F-X, Robbe-Dubois S, Appourchaux T, Bresson Y, Daban J-B, Gaulme P, Gay J, Gouvret C. **Echoes: a new instrumental concept of Doppler Spectro-Imager for the ESA mission project JUICE.** *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. Vol 81722011:18.
190. Verner GA, Chaplin WJ, Basu S, Brown TM, Hekker S, Huber D, Karoff C, Mathur S, Metcalfe TS, Mosser B, Quirion P-O, Appourchaux T, Bedding TR, Bruntt H, Campante TL, Elsworth Y, García RA, Handberg R, Régulo C, Roxburgh IW, Stello D, Christensen-Dalsgaard J, Gilliland RL, Kawaler SD, Kjeldsen H, Allen C, Clarke BD, Girouard FR. **Verification of the Kepler Input Catalog from Asteroseismology of Solar-type Stars.** *The Astrophysical Journal Letters*. September 1, 2011 2011;738:L28.

191. Verner GA, Elsworth Y, Chaplin WJ, Campante TL, Corsaro E, Gaulme P, Hekker S, Huber D, Karoff C, Mathur S, Mosser B, Appourchaux T, Ballot J, Bedding TR, Bonanno A, Broomhall AM, Garcia RA, Handberg R, New R, Stello D, Regulo C, Roxburgh IW, Salabert D, White TR, Caldwell DA, Christiansen JL, Fanelli MN. **Global asteroseismic properties of solar-like oscillations observed by Kepler: a comparison of complementary analysis methods.** *Monthly Notices of the Royal Astronomical Society*. Aug 2011;415(4):3539-3551.
192. White TR, Bedding TR, Stello D, Appourchaux T, Ballot J, Benomar O, Bonanno A, Broomhall A-M, Campante TL, Chaplin WJ, Christensen-Dalsgaard J, Corsaro E, Doğan G, Elsworth YP, Fletcher ST, García RA, Gaulme P, Handberg R, Hekker S, Huber D, Karoff C, Kjeldsen H, Mathur S, Mosser B, Monteiro MJPF, Régulo C, Salabert D, Silva Aguirre V, Thompson MJ, Verner G, Morris RL, Sanderfer DT, Seader SE. **Asteroseismic Diagrams from a Survey of Solar-like Oscillations with Kepler.** *The Astrophysical Journal Letters*. November 1, 2011 2011;742:L3.
193. Wilhelm K, Abbo L, Auchere F, Barbey N, Feng L, Gabriel AH, Giordano S, Imada S, Llebaria A, Matthaeus WH, Poletto G, Raouafi NE, Suess ST, Teriaca L, Wang YM. **Morphology, dynamics and plasma parameters of plumes and inter-plume regions in solar coronal holes.** *Astronomy and Astrophysics Review*. Jun 2011;19:1-70.
194. Appourchaux T, Benomar O, Gruberbauer M, Chaplin WJ, Garcia RA, Handberg R, Verner GA, Antia HM, Campante TL, Davies GR, Deheuvels S, Hekker S, Howe R, Salabert D, Bedding TR, White TR, Houdek G, Aguirre VS, Elsworth YP, Van Cleve J, Clarke BD, Hall JR, Kjeldsen H. **Oscillation mode linewidths of main-sequence and subgiant stars observed by Kepler.** *Astronomy & Astrophysics*. Jan 2012;537.
195. Appourchaux T, Chaplin WJ, Garcia RA, Gruberbauer M, Verner GA, Antia HM, Benomar O, Campante TL, Davies GR, Deheuvels S, Handberg R, Hekker S, Howe R, Regulo C, Salabert D, Bedding TR, White TR, Ballot J, Mathur S, Aguirre VS, Elsworth YP, Basu S, Gilliland RL, Christensen-Dalsgaard J, Kjeldsen H, Uddin K, Stumpe MC, Barclay T. **Oscillation mode frequencies of 61 main-sequence and subgiant stars observed by Kepler.** *Astronomy & Astrophysics*. Jul 2012;543.
196. Augier P, Galtier S, Billant P. **Kolmogorov laws for stratified turbulence.** *Journal of Fluid Mechanics*. Oct 2012;709:659-670.
197. Ayouz M, Mikhailov I, Babikov D, Raoult M, Galtier S, Dulieu O, Kokoouline V. **Potential energy and dipole moment surfaces of HCO- for the search of H- in the interstellar medium.** *Journal of Chemical Physics*. Jun 2012;136(22).
198. Baudin F, Barban C, Goupil MJ, Samadi R, Lebreton Y, Bruntt H, Morel T, Lefevre L, Michel E, Mosser B, Carrier F, De Ridder J, Hatzes A, Hekker S, Kallinger T, Auvergne M, Baglin A, Catala C. **Modelling a high-mass red giant observed by CoRoT.** *Astronomy & Astrophysics*. Feb 2012;538.
199. Baudin F, Belkacem K. **A First Diagnostic Attempt from Stochastically Excited Oscillations in Hot Stars.** In: Shibahashi H, Takata M, LynasGray AE, eds. *Progress in Solar/Stellar Physics with Helio- and Asteroseismology*. Vol 4622012:19-26.
200. Belkacem K, Dupret MA, Baudin F, Appourchaux T, Marques JP, Samadi R. **Damping rates of solar-like oscillations across the HR diagram Theoretical calculations confronted to CoRoT and Kepler observations.** *Astronomy & Astrophysics*. Apr 2012;540.
201. Benomar O, Baudin F, Chaplin WJ, Elsworth Y, Appourchaux T. **Acoustic spectrum fitting for a large set of solar-like pulsators.** *Monthly Notices of the Royal Astronomical Society*. Mar 2012;420(3):2178-2189.
202. Boutry C, Buchlin É, Vial J, Watanabe T, Sakurai T. **Flows in a Small Active Region as Seen by Hinode and SoHO.** In: Sekii T, ed. *Hinode-3: The 3rd Hinode Science Meeting*. Vol 4542012:233.
203. Boutry C, Buchlin E, Vial JC, Regnier S. **FLOWS AT THE EDGE OF AN ACTIVE REGION: OBSERVATION AND INTERPRETATION.** *Astrophysical Journal*. Jun 2012;752(1).

204. Boutry C, Buchlin E, Vial JC, Regnier S. **Flows in the Vicinity of Two Active Regions as Seen by Hinode, STEREO, and SoHO.** In: Rubio LRB, Reale F, Carlsson M, eds. *4th Hinode Science Meeting: Unsolved Problems and Recent Insights*. Vol 4552012:83-88.
205. Bruntt H, Basu S, Smalley B, Chaplin WJ, Verner GA, Bedding TR, Catala C, Gazzano JC, Molenda-Zakowicz J, Thygesen AO, Uytterhoeven K, Hekker S, Huber D, Karoff C, Mathur S, Mosser B, Appourchaux T, Campante TL, Elsworth Y, Garcia RA, Handberg R, Metcalfe TS, Quirion PO, Regulo C, Roxburgh IW, Stello D, Christensen-Dalsgaard J, Kawaler SD, Kjeldsen H, Morris RL, Quintana EV, Sanderfer DT. **Accurate fundamental parameters and detailed abundance patterns from spectroscopy of 93 solar-type Kepler targets.** *Monthly Notices of the Royal Astronomical Society*. Jun 2012;423(1):122-131.
206. Buchlin E, Mercier C, Vial J-C. **Automated detection of filaments from He II images.** *EAS Publications Series*. Vol 552012:175-178.
207. Degroote P, Aerts C, Michel E, Briquet M, Papics PI, Amado P, Mathias P, Poretti E, Rainer M, Lombaert R, Hillen M, Morel T, Auvergne M, Baglin A, Baudin F, Catala C, Samadi R. **The CoRoT B-type binary HD 50230: a prototypical hybrid pulsator with g-mode period and p-mode frequency spacings.** *Astronomy & Astrophysics*. Jun 2012;542.
208. Deheuvels S, García RA, Chaplin WJ, Basu S, Antia HM, Appourchaux T, Benomar O, Davies GR, Elsworth Y, Gizon L, Goupil MJ, Reese DR, Regulo C, Schou J, Stahn T, Casagrande L, Christensen-Dalsgaard J, Fischer D, Hekker S, Kjeldsen H, Mathur S, Mosser B, Pinsonneault M, Valenti J, Christiansen JL, Kinemuchi K, Mullally F. **Seismic Evidence for a Rapidly Rotating Core in a Lower-giant-branch Star Observed with Kepler.** *The Astrophysical Journal*. September 1, 2012 2012;756:19.
209. Dudok de Wit T, Moussaoui S, Guennou C, Auchère F, Cessateur G, Kretzschmar M, Vieira LA, Goryaev FF. **Coronal Temperature Maps from Solar EUV Images: A Blind Source Separation Approach.** *Solar Physics*. November 1, 2012 2012:276.
210. Galtier S. **KOLMOGOROV VECTORIAL LAW FOR SOLAR WIND TURBULENCE.** *Astrophysical Journal*. Feb 2012;746(2).
211. Gosain S, Schmieder B, Artzner G, Bogachev S, Török T. **A Multi-spacecraft View of a Giant Filament Eruption during 2009 September 26/27.** *The Astrophysical Journal*. December 1, 2012 2012;761:25.
212. Guennou C, Auchère F, Soubrié E, Bocchialini K, Parenti S, Barbey N. **On the Accuracy of the Differential Emission Measure Diagnostics of Solar Plasmas. Application to SDO/AIA. II. Multithermal Plasmas.** *The Astrophysical Journal Supplement Series*. December 1, 2012 2012;203:26.
213. Guennou C, Auchère F, Soubrié E, Bocchialini K, Parenti S, Barbey N. **On the Accuracy of the Differential Emission Measure Diagnostics of Solar Plasmas. Application to SDO/AIA. I. Isothermal Plasmas.** *The Astrophysical Journal Supplement Series*. December 1, 2012 2012;203:25.
214. Halain J-P, Rochus P, Renotte E, Appourchaux T, Berghmans D, Harra L, Schühle U, Schmutz W, Auchère F, Zhukov A, Dumesnil C, Delmotte F, Kennedy T, Mercier R, Pfiffner D, Rossi L, Tandy J, BenMoussa A, Smith P. **The EUI instrument on board the Solar Orbiter mission: from breadboard and prototypes to instrument model validation.** *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. Vol 84432012:07.
215. Howell SB, Rowe JF, Bryson ST, Quinn SN, Marcy GW, Isaacson H, Ciardi DR, Chaplin WJ, Metcalfe TS, Monteiro M, Appourchaux T, Basu S, Creevey OL, Gilliland RL, Quirion PO, Stello D, Kjeldsen H, Christensen-Dalsgaard J, Elsworth Y, Garcia RA, Houdek G, Karoff C, Molenda-Zakowicz J, Thompson MJ, Verner GA, Torres G, Fressin F, Crepp JR, Adams E, Dupree A, Sasselov DD, Dressing CD, Borucki WJ, Koch DG, Lissauer JJ, Latham DW, Buchhave LA, Gautier TN, Everett M, Horch E, Batalha NM, Dunham EW, Szkody P, Silva DR, Mighell K, Holberg J, Ballot J, Bedding TR, Bruntt H, Campante TL, Handberg R, Hekker S, Huber D, Mathur S, Mosser B, Regulo C, White TR, Christiansen JL, Middour CK, Haas MR, Hall JR, Jenkins JM, McCaulif S, Fanelli MN, Kulesa C, McCarthy D, Henze CE. **KEPLER-21b: A 1.6 R-**



- Earth PLANET TRANSITING THE BRIGHT OSCILLATING F SUBGIANT STAR HD 179070.**  
*Astrophysical Journal*. Feb **2012**;746(2).
- 216.** Howell SB, Rowe JF, Bryson ST, Quinn SN, Marcy GW, Isaacson H, Ciardi DR, Chaplin WJ, Metcalfe TS, Monteiro MJ, Appourchaux T, Basu S, Creevey OL, Gilliland RL, Quirion P-O, Stello D, Kjeldsen H, Christensen-Dalsgaard J, Elsworth Y, García RA, Houdek G, Karoff C, Molenda-Žakowicz J, Thompson MJ, Verner GA, Torres G, Fressin F, Crepp JR, Adams E, Dupree A, Sasselov DD, Dressing CD, Borucki WJ, Koch DG, Lissauer JJ, Latham DW, Buchhave LA, Gautier TN, III, Everett M, Horch E, Batalha NM, Dunham EW, Szkody P, Silva DR, Mighell K, Holberg J, Ballot J, Bedding TR, Bruntt H, Campante TL, Handberg R, Hekker S, Huber D, Mathur S, Mosser B, Régulo C, White TR, Christiansen JL, Middour CK, Haas MR, Hall JR, Jenkins JM, McCaulif S, Fanelli MN, Kulesa C, McCarthy D, Henze CE. **Kepler-21b: A 1.6 R Earth Planet Transiting the Bright Oscillating F Subgiant Star HD 179070.** *The Astrophysical Journal*. February 1, 2012 **2012**;746:123.
- 217.** Koleva K, Madjarska MS, Duchlev P, Schrijver CJ, Vial JC, Buchlin E, Dechev M. **Kinematics and helicity evolution of a loop-like eruptive prominence.** *Astronomy & Astrophysics*. Apr **2012**;540.
- 218.** Lemaire P, Vial JC, Curdt W, Schuhle U, Woods TN. **The solar hydrogen Lyman alpha to Lyman beta line ratio.** *Astronomy & Astrophysics*. Jun **2012**;542.
- 219.** Mantegazza L, Poretti E, Michel E, Rainer M, Baudin F, Hernandez AG, Semaan T, Alvarez M, Amado PJ, Garrido R, Mathias P, Moya A, Suarez JC, Auvergne M, Baglin A, Catala C, Samadi R. **Pulsation spectrum of delta Scuti stars: the binary HD 50870 as seen with CoRoT and HARPS.** *Astronomy & Astrophysics*. Jun **2012**;542.
- 220.** Mathur S, Metcalfe TS, Woitaszek M, Bruntt H, Verner GA, Christensen-Dalsgaard J, Creevey OL, Dogan G, Basu S, Karoff C, Stello D, Appourchaux T, Campante TL, Chaplin WJ, Garcia RA, Bedding TR, Benomar O, Bonanno A, Deheuvels S, Elsworth Y, Gaulme P, Guzik JA, Handberg R, Hekker S, Herzberg W, Monteiro M, Piau L, Quirion PO, Regulo C, Roth M, Salabert D, Serenelli A, Thompson MJ, Trampedach R, White TR, Ballot J, Brandao IM, Molenda-Zakowicz J, Kjeldsen H, Twicken JD, Uddin K, Wohler B. **A UNIFORM ASTEROSEISMIC ANALYSIS OF 22 SOLAR-TYPE STARS OBSERVED BY KEPLER.** *Astrophysical Journal*. Apr **2012**;749(2).
- 221.** Metcalfe TS, Chaplin WJ, Appourchaux T, Garcia RA, Basu S, Brandao I, Creevey OL, Deheuvels S, Dogan G, Eggenberger P, Karoff C, Miglio A, Stello D, Yildiz M, Celik Z, Antia HM, Benomar O, Howe R, Regulo C, Salabert D, Stahn T, Bedding TR, Davies GR, Elsworth Y, Gizon L, Hekker S, Mathur S, Mosser B, Bryson ST, Still MD, Christensen-Dalsgaard J, Gilliland RL, Kawaler SD, Kjeldsen H, Ibrahim KA, Klaus TC, Li J. **ASTEROSEISMOLOGY OF THE SOLAR ANALOGS 16 Cyg A AND B FROM KEPLER OBSERVATIONS.** *Astrophysical Journal Letters*. Mar **2012**;748(1).
- 222.** Meyrand R, Galtier S. **Spontaneous Chiral Symmetry Breaking of Hall Magnetohydrodynamic Turbulence.** *Physical Review Letters*. Nov **2012**;109(19).
- 223.** Papics PI, Briquet M, Baglin A, Poretti E, Aerts C, Degroote P, Tkachenko A, Morel T, Zima W, Niemczura E, Rainer M, Hareter M, Baudin F, Catala C, Michel E, Samadi R, Auvergne M. **Gravito-inertial and pressure modes detected in the B3 IV CoRoT target HD 43317.** *Astronomy & Astrophysics*. Jun **2012**;542.
- 224.** Perez-Suarez D, Maloney SA, Higgins PA, Bloomfield DS, Gallagher PT, Pierantoni G, Bonnin X, Cecconi B, Alberti V, Bocchialini K, Dierckxsens M, Opitz A, Le Blanc A, Aboudarham J, Bentley RB, Brooke J, Coghlan B, Csillaghy A, Jacquy C, Lavraud B, Messerotti M. **Studying Sun-Planet Connections Using the Heliophysics Integrated Observatory (HELIO).** *Solar Physics*. Oct **2012**;280(2):603-621.
- 225.** Peter H, Abbo L, Andretta V, Auchere F, Bemporad A, Berrilli F, Bommier V, Braukhane A, Casini R, Curdt W, Davila J, Dittus H, Fineschi S, Fludra A, Gandorfer A, Griffin D, Inhester B, Lagg A, Degl'Innocenti EL, Maiwald V, Sainz RM, Pilllet VM, Matthews S, Moses D, Parenti S, Pietarila A, Quantius D, Raouafi NE, Raymond J, Rochus P, Romberg O, Schlotterer M, Schuhle U, Solanki S, Spadaro D, Teriaca L, Tomczyk S, Bueno JT, Vial JC. **Solar magnetism eXplorer**

- (SolmeX) Exploring the magnetic field in the upper atmosphere of our closest star.** *Experimental Astronomy*. Apr **2012**;33(2-3):271-303.
- 226.** Ruiz de Galarreta Fanjul C, Bouzit M, Appourchaux T, Dassas K, Viale T, Philippon A, Vial J-C, Maillard J-P. **Metrology for a solar imaging Fourier transform spectrometer working in the far UV: from the instrumental concept to the first experimental results.** *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. Vol 84502012.
- 227.** Samadi R, Belkacem K, Dupret MA, Ludwig HG, Baudin F, Caffau E, Goupil MJ, Barban C. **Amplitudes of solar-like oscillations in red giant stars Evidence for non-adiabatic effects using CoRoT observations.** *Astronomy & Astrophysics*. Jul **2012**;543.
- 228.** Seaton DB, Berghmans D, Nicula B, Halain J-P, De Groof A, Thibert T, Bloomfield DS, Raftery CL, Gallagher PT, Auchère F, Defise J-M, D'Huys E, Lecat J-H, Mazy E, Rochus P, Rossi L, Schühle U, Slemzin V, Yalim MS, Zender J. **The SWAP EUV Imaging Telescope Part I: Instrument Overview and Pre-Flight Testing.** *Solar Physics*. September 1, 2012 **2012**:217.
- 229.** Soulat L, Schmider F-X, Robbe-Dubois S, Appourchaux T, Bresson Y, Daban J-B, Gaulme P, Gay J, Gouvret C. **Echoes: a new instrumental concept of spectro-imaging for Jovian seismology.** *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. Vol 84422012.
- 230.** Teriaca L, Andretta V, Auchere F, Brown CM, Buchlin E, Cauzzi G, Culhane JL, Curdt W, Davila JM, Del Zanna G, Doschek GA, Fineschi S, Fludra A, Gallagher PT, Green L, Harra LK, Imada S, Innes D, Kliem B, Korendyke C, Mariska JT, Martinez-Pillet V, Parenti S, Patsourakos S, Peter H, Poletto L, Rutten RJ, Schuhle U, Siemer M, Shimizu T, Socas-Navarro H, Solanki SK, Spadaro D, Trujillo-Bueno J, Tsuneta S, Dominguez SV, Vial JC, Walsh R, Warren HP, Wiegelmann T, Winter B, Young P. **LEMUR: Large European module for solar Ultraviolet Research.** *Experimental Astronomy*. Oct **2012**;34(2):273-309.
- 231.** Vial JC, Olivier K, Philippon AA, Vourlidis A, Yurchyshyn V. **High spatial resolution VAULT H-Ly alpha observations and multiwavelength analysis of an active region filament.** *Astronomy & Astrophysics*. May **2012**;541.
- 232.** White TR, Bedding TR, Gruberbauer M, Benomar O, Stello D, Appourchaux T, Chaplin WJ, Christensen-Dalsgaard J, Elsworth YP, Garcia RA, Hekker S, Huber D, Kjeldsen H, Mosser B, Kinemuchi K, Mullally F, Still M. **SOLVING THE MODE IDENTIFICATION PROBLEM IN ASTEROSEISMOLOGY OF F STARS OBSERVED WITH KEPLER.** *Astrophysical Journal Letters*. Jun **2012**;751(2).
- 233.** Zabaydullin O, Dubau J. **Photoabsorption and photoionization of the 1s(2) ground state of He-like ions near 2s2p P-1(1) autoionizing resonance.** *Journal of Physics B-Atomic Molecular and Optical Physics*. Jun **2012**;45(11).
- 234.** Vial J-C, Neiner C. **Nature and Variability of Plasmas Ejected by the Sun.** In: Rozelot J-P, ed. *Lecture Notes in Physics, Berlin Springer Verlag*. Vol 8572013:15.