

LIST OF POSTERS

*published in the Poster Volume**

1. Helioseismology: from ground to space, a worldwide cooperation

- 1.1 An unbiased average rotational splitting from VIRGO/SPM ?
T. Appourchaux, D.O. Gough, T. Sekii and T. Toutain
- 1.2 Detection of solar p-modes in the guiding signals of the luminosity oscillations imager
T. Appourchaux and T. Toutain
- 1.3 Time/frequency analysis of solar p modes from GOLF data
F. Baudin, A. Gabriel, R.A. Garcia, T. Foglizzo, V.G. Gavryusev, E.A. Gavryuseva, D.O. Gough, R. Ulrich and the GOLF team
- 1.4 GOLF data and homomorphic deconvolution
F. Baudin, C. Régulo, A. Gabriel, T. Roca Cortes and the GOLF team
- 1.5 Power spectra products - A new technique for isolating persistent oscillations applied to GOLF spectra
L. Bertello, R.K. Ulrich, R.A. Garcia, S. Turck-Chièze and the GOLF team
- 1.6 Lorentz fitting of whole-disk multiplets
H.-Y. Chang, D.O. Gough, T. Sekii
- 1.7 The current status of the Birmingham Solar-Oscillations Network (BiSON)
W.J. Chaplin, Y. Elsworth, G.R. Isaak, C.P. McLeod, B.A. Miller, R. New and H.B. van der Raay
- 1.8 The solar cycle dependence of low-degree p-mode eigenfrequencies from recent BiSON data
W.J. Chaplin, Y. Elsworth, G.R. Isaak, C.P. McLeod, B.A. Miller and R. New
- 1.9 Limitations of the IRIS network performance
S. Ehgamberdiev, S. Khalikov, O. Ladenkov, A. Serebryanski, Y. Tillaev, E. Fossat, G. Grec, B. Gelly, F.-X. Schmider, P. Pallé, C. Régulo, M. Lazrek and T. Hoeksema

*The volume is published by the *Observatoire de la Côte d'Azur* and the *Université de Nice* and can be ordered by sending an e-mail to *poster-IAU181@irisalfa.unice.fr*

- 1.10 A new technique to analyze the low frequency range of the solar oscillations spectrum
R.A. García, T. Roca Cortés, C. Régulo, P. L. Pallé and H. B. van der Raay
- 1.11 Time evolution of p-modes in the GOLF data
R.A. Garcia, T. Foglizzo, S. Turck-Chièze, F. Baudin, P. Boumier and the GOLF Team
- 1.12 Supergranule leakage through an observing mask
S.E. Gibson and P.H. Scherrer
- 1.13 Comparison of SOI and TON data with ring diagrams techniques
I. González Hernandez, J. Patrón, R. Bogart, L. Sá, the SOI team and D.-Y. Chou and the TON team
- 1.14 GOLF: Correlation function of the velocity signal
G. Grec, M. Gabriel, C. Renaud and the GOLF team
- 1.15 Continuous large-scale observations of velocity and intensity with MDI
J.T. Hoeksema, R.I. Bush, D. Mathur, M. Morrison and P.H. Scherrer
- 1.16 Template fitting: a strategy for fitting blended peaks in higher-l GONG data
R. Howe and M.J. Thompson
- 1.17 Spatial leaks and their implications for peak-fitting in various regions of the $l - \nu$ diagram
R. Howe and M.J. Thompson
- 1.18 A tandem optical resonance scattering spectrometer
G.R. Isaak, D.J. Lewis, R. Lines, C.P. McLeod and H.K. Williams
- 1.19 The VIRGO data center
A. Jiménez, M.F. Gómez and E. Zatón
- 1.20 An extinction gradient monitor for global solar seismology
P.D. Kightley, G.R. Isaak, R. Lines, C.P. McLeod and H.K. Williams
- 1.21 The 22-year CRAO-WSO helioseismic experiment: a splitting of the 160-minute mode
V.A. Kotov, V.I. Haneychuk, J.T. Hoeksema, P.H. Scherrer and T.T. Tsap
- 1.22 Preliminary p-mode frequencies from GOLF experiment
M. Lazrek, C. Régulo, F. Baudin, L. Bertello, R.A. García, C. Gouiffes, G. Grec, T. Roca Cortés, S. Turck-Chièze, R.K. Ulrich, J.M. Robillot, A.H. Gabriel, P. Boumier, J. Charra and the GOLF team
- 1.23 Temporal behaviour of p-modes from VIRGO
T. Leifsen, Bo N. Andersen, T. Appourchaux, C. Fröhlich, A. Jiménez, T. Toutain and C. Wehrli
- 1.24 Power spectra from the Taiwan Oscillation Network (TON)
S. Loudagh, T.-M. Mu, D.-Y. Chou, and the TON Team

- 1.25 A search for g-modes in earth-based velocity spectra
L. Martín, P.L. Pallé, F. Pérez Hernández and H.B. van der Raay
- 1.26 Comparisons on fitting ring diagrams
J. Patrón, I. Gonzalez Hernandez, D.-Y. Chou and the TON team
- 1.27 Velocity and/or intensity in the GOLF one wing signal ?
*C. Régulo, T. Roca Cortés, P. Boumier, R. García,
J.M. Robillot, S. Turck-Chièze, R. Ulrich and the GOLF team*
- 1.28 Aligning the GONG network
C.G. Toner and J. Harvey

2. Internal structure and rotation: Seismic inversions

- 2.1 Structure inversion hare-and-hounds
*H.M. Antia, S. Basu, J. Christensen-Dalsgaard, J.R. Elliott,
D.O. Gough, J.A. Guzik, and A.G. Kosovichev*
- 2.2 Solar internal sound speed as inferred from combined BiSON and LOWL oscillation frequencies
*S. Basu, W. J. Chaplin, J. Christensen-Dalsgaard, Y. Elsworth,
G.R. Isaak, R. New, J. Schou, M.J. Thompson and S. Tomczyk*
- 2.3 Equation of state effects in helioseismic inversions
S. Basu and J. Christensen-Dalsgaard
- 2.4 Seismic calibration of solar envelope models with using the "differential-response" technique
V.A. Baturin and S.V. Vorontsov
- 2.5 Sensitivity of p and g-modes on specified physical processes of solar modeling
S. Brun, I. Lopes, P. Morel, and S. Turck-Chièze
- 2.6 3D hydrodynamic simulation of the solar radiation-convection transition region
K.L. Chan et Y.C. Kim
- 2.7 Rotation of the solar core
*W.J. Chaplin, J. Christensen-Dalsgaard, Y. Elsworth, R. Howe,
G.R. Isaak, R. New, J. Schou, M.J. Thompson, S. Tomczyk*
- 2.8 The solar core: new low-l p-mode fine spacing results from BiSON
*W.J. Chaplin, Y. Elsworth, G.R. Isaak, C.P. McLeod, B.A. Miller
and R. New*
- 2.9 The solar rotation rate from inversion of the first GONG datasets
T. Corbard, G. Berthomieu and J. Provost
- 2.10 The solar core rotation from LOWL and IRIS or BiSON data
T. Corbard, G. Berthomieu, J. Provost and E. Fossat
- 2.11 The current situation of the solar equation of state
W. Däppen and A. Perez

- 2.12 The rotation of the Sun's core as deduced from helioseismic and oblateness measurements
M.P. Di Mauro, L. Paternó and S. Sofia
- 2.13 Yet another inversion of the solar core rotation rate
A. Eff-Darwich, S.G. Korzennik, C. Rabello-Soares, T. Appourchaux, S. Tomczyk, and J. Schou
- 2.14 Influence of hydrogen diffusion on the solar p-mode spectrum
M. Gabriel and F. Carrier
- 2.15 A forward analysis of the solar core rotation
L. Gizon
- 2.16 The influence of OPAL and OP opacities on standard solar models
Z.G. Gong and Y. Li
- 2.17 On the solar tachocline
D.O. Gough and T. Sekii
- 2.18 Two-dimensional solar models: evolution and hydrodynamics
J.A. Guzik and R.J. Deupree
- 2.19 Seismic observation of solar tachocline
A.G. Kosovichev
- 2.20 Theory of solar differential rotation
M. Küker and G. Rüdiger
- 2.21 An iterative nonlinear inversion technique for the sound speed in the solar interior
K.I. Marchenkov, I.W. Roxburgh and S.V. Vorontsov
- 2.22 Angular momentum transport in the Sun through meridian circulation
J. Matias and J.P. Zahn
- 2.23 Numerical simulations of global stellar convection
M.S. Miesch, T. Clune, J. Toomre and G. Glatzmaier
- 2.24 Testing models of the solar convective zone by helioseismology methods
I.V. Mironova and V.A. Baturin
- 2.25 Standard and non standard solar models
P. Morel, J. Provost, G. Berthomieu, and N. Audard
- 2.26 $R \otimes R$ helioseismic rotation inversions
F.P. Pijpers
- 2.27 Low degree oscillations modes and VIRGO results
J. Provost, G. Berthomieu, T. Toutain, T. Appourchaux and the VIRGO team
- 2.28 The solar equatorial rotation profile measured by LOI-T
M.C. Rabello Soares, T. Roca Cortés, A. Jiménez and T. Appourchaux
- 2.29 Frequency shifts of low degree solar acoustic modes and solar neutrino flux
P. Raychauduri

- 2.30 Solar models including mixing near the solar core
O. Richard and S. Vaclair
- 2.31 Evidence for a shallow superadiabatic layer
C.S. Rosenthal
- 2.32 Helioseismic constraints on solar structure and solar neutrinos
I.W. Roxburgh
- 2.33 Linear helioseismic inversion: new technique of partial singular-value decomposition
V.N. Strakhov and S.V. Vorontsov
- 2.34 Seismic investigation of the solar structure using GONG frequencies
S.C. Tripathy, H.M. Antia, F. Hill and A. Ambastha
- 2.35 Helioseismic determination of opacity corrections
S.C. Tripathy, S. Basu and J. Christensen-Dalsgaard
- 2.36 Comparison of predicted acoustic mode frequencies with preliminary GOLF results
S. Turck-Chièze, S. Basu, S. Brun, J. Christensen Dalsgaard, A. Eff Darwich, M. Gabriel, C.J. Henney, A.G. Kosovichev, I. Lopes, L. Paternò, J. Provost, R.K. Ulrich and the GOLF team
- 2.37 Temperature inhomogeneities at the bottom of the solar convective zone: an alternative solution to the lithium depletion
S. Vaclair and O. Richard
- 2.38 Seismic sounding of the solar interior: differential response technique
S.V. Vorontsov
- 2.39 Asymptotic theory of p-modes modified for the effects of gravity
B. Willems, T. Van Hoolst and P. Smeyers
- 2.40 Internal waves and angular momentum transport in the Sun
J.-P. Zahn, S. Talon and J. Matias
- 2.41 Possible reason of the periodicity in the differential rotation of the Sun and generation of solar cycles
T.V. Zaqarashvili
- 2.42 Basics of the theory of anisotropic p-modes propagation in the convection zone
Y. Zhugzhda

3. Other inputs from helioseismology to solar physics

- 3.1 Properties of the solar background signal from VIRGO
B.N. Andersen, T. Appourchaux, D. Crommelynck, C. Fröhlich, A. Jiménez, M.C. Rabello-Soares and C. Wehrli
- 3.2 Nonlinear waves in chromospheric jets
A.A. Andreev and A.G. Kosovichev

- 3.3 Acoustic emission of the quiet Sun
B. Bala, D.-Y. Chou, M.-T. Sun and the TON team
- 3.4 Subsurface structure of emerging flux regions from helioseismology
B. Bala, D.-Y. Chou, M.-T. Sun and the TON team
- 3.5 On the statistical distribution of solar p-modes amplitudes
H.-Y. Chang and D.O. Gough
- 3.6 The observation and simulation of stochastically excited solar p-modes
W. J. Chaplin, Y. Elsworth, G. R. Isaak, C. P. McLeod, B. A. Miller and R. New
- 3.7 Solar p-mode line widths from recent BiSON helioseismological data
W. J. Chaplin, Y. Elsworth, G. R. Isaak, C. P. McLeod, B. A. Miller and R. New
- 3.8 Observational constraints on the dynamical properties of the shear layer at the base of the solar convection zone
P. Charbonneau, J. Christensen-Dalsgaard, R. Henning, J. Schou, M.J. Thompson and S. Tomczyk
- 3.9 Inference of subsurface magnetic field from absorption coefficients of p-modes in active regions
H.R. Chen, D.-Y. Chou, C.-H. Lin and the TON team
- 3.10 Can convection-zone jets be detected with GONG 7-month data?
J. Christensen-Dalsgaard, R. Howe, J. Schou, M. J. Thompson, and J. Toomre
- 3.11 Measurements and variations of the solar diameter
C. Delmas, A. Vigouroux, P.C.R. Poppe, V.A.F. Martin, F. Laclare, N.V. Leister and M. Emilio
- 3.12 Determination of solar subsurface rotation by time-distance seismology
T.L. Duvall, Jr., A.G. Kosovichev and P.H. Scherrer
- 3.13 Latest results from the IRIS network: solar p-modes widths and statistical uncertainties
D. Fierry-Fraillon, B. Gelly, F.-X. Schmider, E. Fossat and A. Pantel
- 3.14 Temporal behaviour of low l p-mode power. GONG experiment
V.G. Gavryusev, E.A. Gavryuseva and the GONG Mode Physics team
- 3.15 Possible magnetic field effects seen with local-area analysis of MDI
D. Haber, E. Zweibel, J. Toomre, R. Bogart, L. Sá, A. Burnette and F. Hill
- 3.16 Studies of solar oscillation background spectra
J. Harvey, S. Jefferies, T. Duvall Jr., Y. Osaki and H. Shibahashi
- 3.17 Low frequency oscillations using the MDI line-depth parameter
C.J. Henney, R.K. Ulrich, R.S. Bogart and R.I. Bush
- 3.18 Simulations of magnetic field effects on solar oscillation ring diagrams
F. Hill, D.A. Haber and E.G. Zweibel

- 3.19 Steady parts of rotation and magnetic field in the solar interior
K.M. Hiremath and M.H. Gokhale
- 3.20 Effects of solar activity on amplitude of acoustic oscillations
A.G. Kosovichev and V.V. Zharkova
- 3.21 Simultaneous measurement of radial oscillations and optical thickness oscillations in the chromosphere
M. Missana
- 3.22 On the origin of solar photospheric turbulence: Granular velocity shear
A. Nesis, R. Hammer and H. Schleicher
- 3.23 Study of line asymmetries of solar oscillations above and below the acoustic cut-off frequency
R. Nigam, A.G. Kosovichev and P.H. Scherrer
- 3.24 Does the solar internal rotation rate can be inferred from full-disk magnetograms?
D.I. Ponyavin
- 3.25 Long period oscillations in solar diameter
P.C.R. Poppe, N.V. Leister, M. Emilio and V.A.F. Martin
- 3.26 New method for diagnostics of solar magnetic fields and flows
M. Ryutova and P. Scherrer
- 3.27 Implication of long-term frequency variation of low and intermediate degree modes
H. Shibahashi
- 3.28 Solar irradiance variations during the activity minimum in 1996
M. Steinegger, J.A. Bonet, M. Vazquez and A. Jiménez
- 3.29 Flow around sunspots from frequency shift measurements
M.-T. Sun, D.-Y. Chou, C.-H. Lin and the TON team
- 3.30 Solar velocity noise measurements from recent BiSON helioseismological data
C.J. Underhill and G.R. Isaak
- 3.31 Excitation of torsional waves and an hypothesis on the origin of the solar cycle
Y.V. Vandakurov
- 3.32 Solar irradiance variations and active regions observed by VIRGO experiment on SOHO
C. Wehrli, T. Appourchaux D. Crommelynck, W. Finsterle, C. Fröhlich and J. Pap

4. Asteroseismology: Theory and methods

- 4.1 Asteroseismological calibration of stellar clusters and convective-core overshooting
N. Audard and I.W. Roxburgh

- 4.2 Asteroseismic calibration of stellar clusters
N. Audard, T. Brown, J. Christensen-Dalsgaard and S. Frandsen
- 4.3 Atmosphere models of A-F stars. Effects on the acoustic cut-off frequency
N. Audard, F. Kupka, P. Morel and W. Weiss
- 4.4 Seismological modeling of δ Scuti star CD-24°7599
P.A. Bradley and J.A. Guzik
- 4.5 Effect of a magnetic field on the frequencies of the acoustic modes of a roAp star
M.S. Cunha and D.O. Gough
- 4.6 A new method to determine the asymptotic eigenfrequency equation of low-degree acoustic modes
D.O. Gough and I.P. Lopes
- 4.7 Asteroseismology in open clusters: Praesepe, a paradigm
M.M. Hernández, J.A. Belmonte, E. Michel, M. Álvarez, S.Y. Jiang, M. Chevreton, M.J. Goupil, F. Soufi, M. Auvergne, A. Baglin, Y.Y. Liu, I. Vidal and T. Roca Cortés
- 4.8 Pulsational stability of main sequence stars
G. Houdek
- 4.9 Second overtone RR Lyrae stars: do they exist?
G. Kovács
- 4.10 Nonadiabatic propagation of stellar pulsation
Y. Li and Z.G. Gong
- 4.11 Asymptotic analysis of nonadiabatic propagation of stellar pulsation
Y. Li and Z.G. Gong
- 4.12 Yet another approach to nonadiabatic g -mode spectra in solar type stars - A report on work in progress
W. Löffler
- 4.13 New modelling of the α Cen A
C. Neuforge, B. Chaboyer, J. Christensen-Dalsgaard and A. Noels
- 4.14 θ Tucanae: A fascinating target for asteroseismology with binary nature?
M. Paparó, C. Sterken, H.W.W. Spoon and P.V. Birch
- 4.15 The large-scale flow pattern in turbulent stellar convection zones with AKA-effect
B. v. Rekowski and G. Rüdiger
- 4.16 Inversion for the internal structure of an evolved small-mass star using modes with $l = 0 - 3$
I.W. Roxburgh, N. Audard, S. Basu, J. Christensen-Dalsgaard and S.V. Vorontsov
- 4.17 Asteroseismology with differential interferometry
F.-X. Schmider, R. Petrov, M. Chouchane

- 4.18 Numerical problem to calculate stellar nonradial oscillations : *FILOU* code
F. Tran Minh and L. Léon

5. Results on some selected type stars

- 5.1 Search for periodicity in the variations of the H α line of the Be star *o* And
Briot D., J. Chauville, J.P. Sareyan, G. Guerrero, L. Huang, X.Z. Guo, Y.L. Guo, J.X. Hao, V. Desnoux, F. Morand
- 5.2 Interpretation of the observed oscillations of τ Pegasi
T.M. Brown, J. Christensen-Dalsgaard, E.J. Kenelly and M.J. Thompson
- 5.3 Observational constraints on Praesepe cluster by asteroseismology
M.M. Hernandez, F. Pérez-Hernández, E. Michel, J. A. Belmonte, M.J. Goupil and Y. Lebreton
- 5.4 Rapid photospheric variability in the Be star 48 Per
A.M. Hubert, M. Floquet and the MUSICOS 1989 team
- 5.5 The instability strip of fundamental mode RR Lyrae stars
J. Jurcsik
- 5.6 The “universal” frequency seen in δ Scuti pulsating stars
V.A. Kotov and S.V. Kotov
- 5.7 Mode typing of the dominant mode in the δ Scuti star X Cae by line profile moments
L. Mantegazza and E. Poretti
- 5.8 The p-mode spectra of the roAp stars
P. Martínez
- 5.9 Determination of $\Delta T \cos \alpha$ as a function of atmospheric depth in roAp stars
R. Medupe
- 5.10 Whole Earth Telescope observations of G185-32
P. Moskalik, S. Zola, G. Pajdosz, J. Krzeiński, D. O’Donoghue, M. Katz, G. Vauclair, N. Dolez, M. Chevreton, M.A. Barstow, A. Kanaan, S.O. Kepler, O. Giovannini, J.L. Provencal, S.D. Kawaler, J.C. Clemens, R.E. Nather, D.E. Winget, T.K. Watson, K. Yanagida, J.S. Dixon, C.J. Hansen, P.A. Bradley, M.A. Wood, D.J. Sullivan, S.J. Kleinman, E. Meistas, J.E. Solheim, A. Bruvold and E.M. Leibowitz
- 5.11 Synchronous change in the frequencies of the double mode RR Lyrae star, V26 in M15
M. Paparó, S.M. Saad, B. Szeidl and M.S. Abu elazm

- 5.12 A photometric survey for pulsation in λ Bootis stars
E. Paunzen, R. Kushnig, G. Handler, M. Gelbmann, W.W. Weiss and P. North
- 5.13 γ Doradus variables: a new class of pulsating stars. The case of HD 224945
E. Poretti, C. Akan, M. Bossi, C. Koen, K. Krisciunas and E. Rodriguez
- 5.14 The photometric results of an international multisite multitechnique campaign carried out on the Be star α And
J.P. Sareyan, S. Gonzalez-Bedolla, J. Chauville, G. Guerrero, D. Briot, L. Huang, J.X. Hao, J. Adelman and M. Alvarez
- 5.15 Amplitude relations of the galactic double-mode Cepheids
L. Szabados
- 5.16 New radial velocity curves of α Ap and δ Scuti stars to be used for oscillation mode identification
M. Viskum, I.K. Baldry, H. Kjeldsen, S. Frandsen and T.R. Bedding