

SCIENTIFIC PROGRAMME

Sunday, 31 st January	
17:30 – 20:00	Registration
20:00 – 22:00	<i>Welcome cocktail</i>
Monday, 1 st February	
08:00 – 08:45	Registration
	Welcome
08:45 - 09:25	OPENING TALK: <i>Seismological Challenges For Stellar Structure.</i> J. Christensen-Dalsgaard
Session I: Global Helioseismology	
Chair: Y. Elsworth	
09:25 - 10:05	The acoustic and magnetic solar cycles (Invited Talk) R. Komm
10:05 - 10:25	Internal magnetic fields inferred from helioseismic data C.S. Baldner
10:25 - 11:10	<i>Coffee-break & poster viewing</i>
11:10 - 11:50	The interior of the Sun in 3D: how to go beyond the spherical Sun picture using seismology (Invited Talk) S. Mathis
11:50 - 12:10	Theoretical amplitudes of asymptotic solar gravity modes K. Belkacem
12:10 - 12:30	What does the Sun suggest about global oscillation amplitudes in solar-like stars? G. Severino
12:30 - 14:30	<i>Lunch break & poster viewing</i>
Session IIa: Local Helioseismology and atmospheric waves	
Chair: L. Gizon	
14:30 – 14:50	<i>Reports on HELAS Network Activities (NA) #3 and #4: Global and Local Helioseismology</i> M. Thompson & L. Gizon
14:50 - 15:30	Theoretical tools in local helioseismology (Invited Talk) H. Schunker
15:30 – 15:50	Travel-time sensitivity kernels for density, pressure, and sound-speed perturbations R. Burston
15:50 – 16:10	Solar oscillations and Meridional circulation M. Roth
16:10 – 16:55	<i>Coffee-break & poster viewing</i>
16:55 – 17:15	The meridional flow as estimated by Fourier-Hankel decomposition H.P. Doerr
17:15 – 17:35	Sunspot seismic halos generated by fast MHD wave refraction M. Collados
17:35 – 17:55	A wave scattering theory of solar seismic haloes S.M. Hanasoge
17:55 - 18:15	Numerical helioseismic experiments of magneto-acoustic waves in the solar atmosphere. C. Nutto

Tuesday, 2nd February

Session IIb: Local Helioseismology and atmospheric waves

Chair: L. Gizon

8:45 – 9:25	Techniques for active region seismology (Invited Talk) I. González
9:25 – 9:45	The stability of toroidal magnetic fields in rotating stellar tachoclines G. Rudiger
9:45 – 10:05	The current status of sunspot seismology H. Moradi
10:05 – 10:25	Observing magneto-acoustic waves in the solar photosphere S. Zharkov
10:25 – 11:10	<i>Coffee-break & poster viewing</i>

Session IIIa: Asteroseismology of solar like stars

Chair: M. Monteiro

11:10 – 11:50	The effect of input physics on asteroseismic models (Invited Talk) T. Metcalfe
11:50 – 12:10	Probing the cores of solar-like pulsators M. S. Cunha
12:10 – 12:30	Seismological inference on the core μ -gradient of solar-like stars via low degree mixed modes S. Deheuvels
12:30 – 14:30	<i>Lunch break & poster viewing</i>

Session IIIb: Asteroseismology of solar like stars

Chair: M. Monteiro

14:30 – 15:10	Interpretation and constraints of seismic parameters (Invited Talk) J. Ballot
15:10 – 15:30	Seismic signatures of stellar cores of Solar-like pulsators: dependence on mass and age I.M. Brandao
15:30 – 15:50	On detecting the large separation in the autocorrelation of stellar oscillation times series B. Mosser
15:50 – 16:10	Asteroseismic Modelling of Procyon A G. Dogan
16:10 – 16:55	<i>Coffee-break & poster viewing</i>
16:55 – 17:15	Constraints of a pulsation frequency on stellar parameters in an eclipsing binary system. O.L. Creevey
17:15 – 17:35	A complicated case: HD49933 O. Benomar
17:35 – 17:55	Seismic constraints on HD-46375 and detection of the direct light reflected by its Hot Jupiter companion in the CoRoT data P Gaulme
17:55 – 18:15	Can Asteroseismology solve the solar abundance problem?. The test case of HD43587 A. Mazumdar

Wednesday, 3rd February

Session IV: Special "Asteroseismology with Kepler" Session

Chair: H. Kjeldsen

09:00 – 10:25	Reports by Chairs and Members of KASC Working Groups <ul style="list-style-type: none">• "The Kepler Asteroseismic Investigation: Scientific goals and first results from Kepler". J. Christensen-Dalsgaard• "The asteroseismic potential of Kepler: first results for solar-type stars I: Data Analysis", C. Karoff• "The asteroseismic potential of Kepler: first results for solar-type stars I: Modelling". T. Metcalfe• "The asteroseismic potential of Kepler: first results for solar-type stars I: Ground-based follow-up". J. Molenda-Zakowicz• "Solar-like oscillations in low-luminosity red giants: First results from Kepler", J. de Ridder
10:25 - 11:10	<i>Coffee-break & poster viewing</i>
11:10 - 12:30	Reports by Chairs and Members of KASC Working Groups <ul style="list-style-type: none">• "Detection of solar-like oscillations from Kepler photometry of the open cluster NGC 6819". D. Stello• "Discovery of a red giant with solar-like oscillations in an eclipsing binary system from Kepler Space-based Photometry". S. Hekker• "Hybrid gamma Doradus - delta Scuti pulsators: New Insights into the physics of the oscillations from Kepler observations", A. Grigahcene• "Ground-based follow-up in relation to Kepler Asteroseismic Investigation". K. Uytterhoeven
12:30 - 20:00	<i>Excursion to Timanfaya National Park and visit to Geria. This will include lunch at Bodegas Stratvs.</i>

Thursday, 4th February

Session V: Asteroseismology of red giants and hot subdwarfs

Chair: A. Baglin

8:45 – 9:25	Convection and oscillations (Invited Talk) G. Houdek
9:25 – 10:05	Seismic observations and interpretation for red giants (Invited Talk) S. Hekker
10:05 – 10:25	Solar-like oscillations disclose the internal structure of the CoRoT red giant HR 7349 A. Miglio
10:25 – 10:50	<i>Coffee-break & poster viewing</i>
10:50 – 11:10	Inference from adiabatic analysis of solar-like oscillations in red giants J. Montalbán
11:10 – 11:30	Frequency spacings of p modes in Red Giants observed by CoRoT C. Barban
11:30 – 12:00	Structure and evolution of pulsating hot subdwarfs (Invited Talk) S. Kawaler
12:00 – 12:30	Observational asteroseismology of pulsating hot subdwarf stars (Invited Talk) R. Ostensen
12:30 – 12:50	The sdB+giant planet system V391Peg: an updated overview R. Silvotti
12:50 – 14:30	<i>Lunch break & poster viewing</i>

Session VI: Asteroseismology in stars at the instability strip	
Chair: M.P. di Mauro	
14:30 – 15:10	Interpretation of asteroseismic data (Invited Talk) E. Michel
15:10 – 15:50	Oscillations in rapidly rotating stars (Invited Talk) D. Reese
15:50 – 16:10	Magnetoacoustic waves in the atmosphere of roAp stars- A theoretical interpretation J. Sousa
16:10 – 16:55	<i>Coffee-break & poster viewing</i>
16:55 – 17:15	Theoretical study of γ Doradus pulsations in pre-main sequence stars M. P. Bouabid
17:15 – 17:35	Pulsational content and abundance analysis of COROT Delta Scuti stars E. Poretti
17:35 – 17:55	Magneto-acoustic pulsations in atmospheres of roAp stars E. Khomenko
17:55 – 18:15	Frequency statistics of rapidly rotating star p-mode spectrum F. Lignières
20:00 - 23:00	<i>Closing Dinner at Jameos del Agua</i>
Friday, 5th February	
Session VII: Asteroseismology of hot stars	
Chair: C. Aerts	
8:45 – 8:55	<i>Reports on HELAS Network Activities (NA) #5:Asteroseismology</i> C. Aerts
8:55 – 9:35	Seismic observations and tools for hot stars (Invited Talk) C. Neiner
9:35 – 9:55	Complex asteroseismology of the hybrid B-type pulsator γ Pegasi: a test of stellar opacities P. Walczak
9:55 – 10:15	Modelling Results for Two Late Be Stars observed by CoRoT C. C. Lovekin
10:15 – 10:35	Observations of B stars from CoRoT's asteroseismology programme P. Degroote
10:25 – 11:10	<i>Coffee-break & poster viewing</i>
11:10 – 11:30	Is the macroturbulent broadening present in OB Supergiants related with pulsations? S. Simón-Díaz
11:30 – 11:50	On the use of rotational splitting asymmetries to probe the internal rotation profile of stars. Application to β Cephei stars J.C. Suárez
11:50 – 12:10	Photometric study of two β Cephei pulsators in eclipsing systems D. Drobek
12:10 – 12:30	Ensemble asteroseismology of pulsators in the young open clusters NGC 884 and NGC 6910 from a three-year campaign A. Pigulski
12:30 – 14:30	<i>Lunch break & poster viewing</i>

Session VIII: Future and ongoing Projects	
Chair: P. Pallé	
14:30 – 15:00	Four years of HELAS (Invited Talk) O. Von der Lühe
15:00 – 15:10	Report of current status of the operational projects. P. L. Pallé
15:10 – 16:10	Short presentations on “planned” and “ongoing” projects <ul style="list-style-type: none"> • “Helioseismology with SDO”. L. Gizon • “Helioseismology programs with Solar Orbiter and PICARD”. T. Appourchaux • “GOLF-NG development and the ASPIICS mission”. S. Turck-Chieze • “A Multiline Spectrometer for Seismic Mapping of the Solar Atmosphere at the VTT”. J. Staiger • “ The PLATO Mission Project”. W. Zima • “Asteroseismology with SONG”. J. Christensen-Dalsgaard • “Asteroseismology & Virtual Observatory: the new generation stellar physics is coming”. J.C. Suárez • “EXOTIME Project”. S. Benatti
16:10 – 16:55	<i>Coffee-break & poster viewing</i>
16:55 – 17:35	Round table on “What’s next?”
17:35 – 18:15	CLOSING TALK B. Chaplin