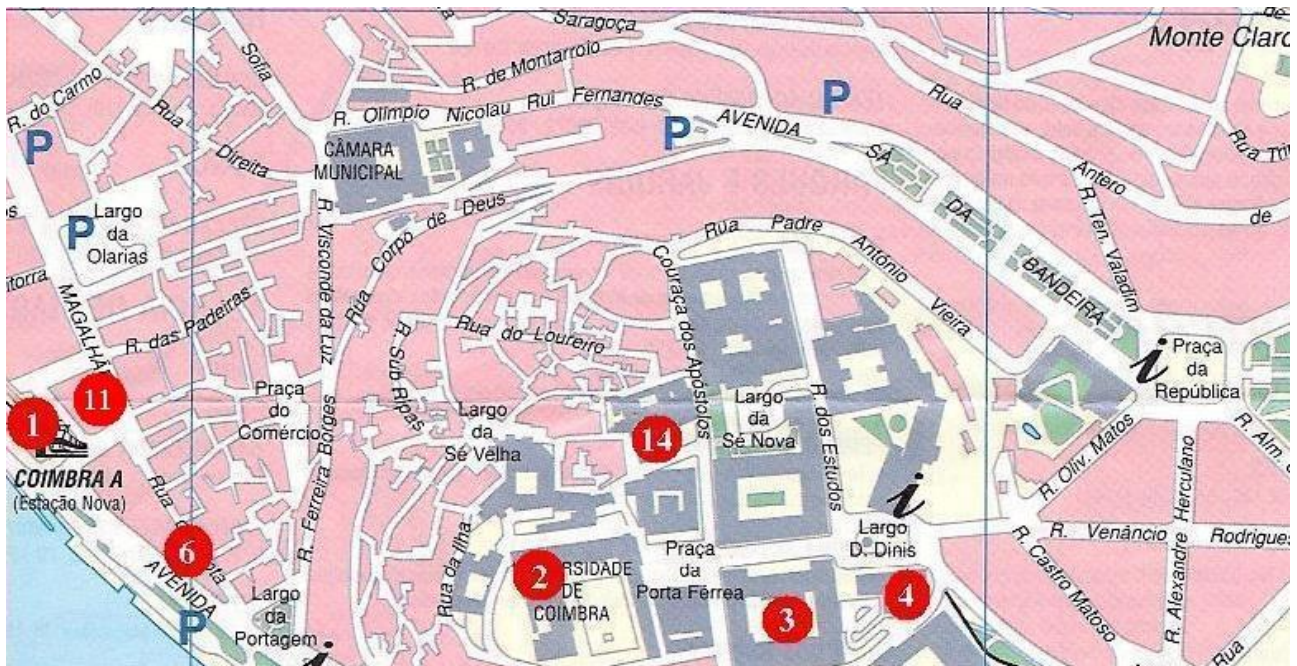


Coimbra Solar Physics Meeting „Ground-based Solar Observations in the Space Instrumentation Era“, 5 - 9 October 2015, Coimbra, Portugal

The 2015 Coimbra Solar Physics Meeting (CSPM-2015) on “**Ground-based Solar Observations in the Space Instrumentation Era**” will be held during 5 - 9 October 2015 in Coimbra, Portugal.

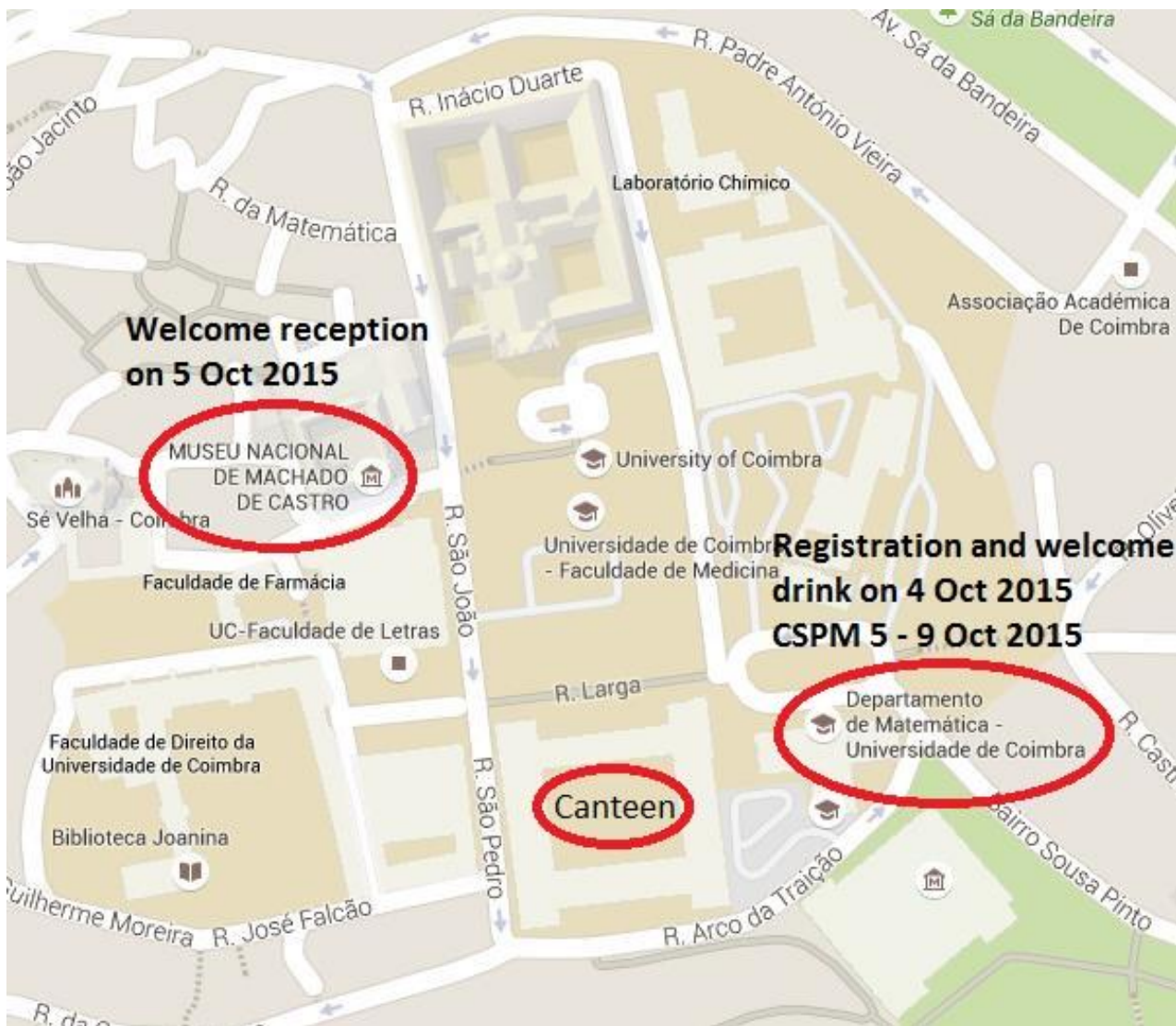
The meeting will be hosted by the University of Coimbra - UC (<http://www.uc.pt/en>), one of the oldest European universities (founded in 1290), located in the central region of Portugal.

Meeting location: the Meeting will take place in the Department of Mathematics UC, Largo Dom Dinis ("4" on the [map](#) below). The scientific programme of the Meeting will start on Monday, 5 October, 2015, at 9h00 in the room Pedro Nunes. The registration desk will be open on Sunday, 4 October, 2015, 18h00-20h00 (Department of Mathematics) and then on Monday morning, from 8h45 AM in the Department of Mathematics. Participants of the CSPM-2015 are allowed to have lunches in the Canteen ("3" on the map), the cost of the meal is 4.10 EUR.



1 - Train Station COIMBRA A, 2 - Old University Tower, 3 – Canteen, 4 - Mathematics Department, 5 - Ibis Hotel, 6 - Astória Hotel, 11 - Hotel Oslo, 14 – Museu Nacional de Machado Castro.

This map is a cut out of the map at http://www.mat.uc.pt/~cspm2015/town_map.html



- Venue of the registration and welcome drink on 4 October 2015 and the scientific programme of the CSPM during 5 – 9 October 2015: Department of Mathematics UC, Largo D. Dinis, Coimbra.
- Venue of the welcome reception on 5 October 2015: Museu de Machado de Castro, Largo Dr. José Rodrigues, Coimbra.
- Canteen – lunch recommendation.

Co-organizers:

- Geophysical and Astronomical Observatory, University of Coimbra (OGAUC)
- Center of Earth and Space Research, University of Coimbra (CITEUC, <http://geofisico.dyndns.org/>)
- Geo-Space Sciences Research Centre, University of Porto (CICGE, <http://www.fc.up.pt/cicge/>)
- CENTRA - Instituto Superior Técnico, Univ. de Lisboa, Portugal, (<http://centra.tecnico.ulisboa.pt>)
- Slovak Central Observatory, Hurbanovo, Slovakia (SCO, <http://www.suh.sk>)

BLOCK SCHEDULE OF THE SCIENTIFIC PROGRAMME OF THE COIMBRA SOLAR PHYSICS MEETING

Date	Morning (9.00-12.30)	Afternoon (14.30-18.00)	Evening
Sun, 4 Oct	Arrival	Arrival	18.00-20.00: Registration and welcome drink Meeting of the SOC/LOC
Mon, 5 Oct	Session 1: Observations of the Sun	Session 1: Observations of the Sun	Welcome reception
Tue, 6 Oct	Session 1: Observations of the Sun	Session 2: Solar image management, spectro-polarimetric and processing techniques	
Wed, 7 Oct	Session 3: Theory and modeling – comparison to observations	Excursions: Spectroheliograph – Geophysical and Astronomical Observatory; Conimbriga – ruins of the ancient roman town	
Thu, 8 Oct	Session 3: Theory and modeling – comparison to observations Session 4: Long-term variations of the Sun	Session 4: Long-term variations of the Sun	Conference dinner
Fri, 9 Oct	Session 4: Long-term variations of the Sun Session 5: Facilities for ground-based and space solar observations	Session 5: Facilities for ground-based and space solar observations	Meeting of the SOC/LOC

DETAILED SCIENTIFIC PROGRAMME

Sunday, 4 October

Arrival, **18.00 -20.00:** Registration and welcome drink (*Department of Mathematics UC, Largo D. Dinis*)

Evening (20.30): Meeting of the SOC/LOC

Monday, 5 October

Morning (8.45 -12.30)

Welcome addresses (*Department of Mathematics UC, Largo D. Dinis, room Pedro Nunes*)

Session 1: Observations of the Sun:

Chairperson: M. Verma

Invited Review 1: Quiet Sun and its dynamics as viewed from the ground and from space - **K. Tziotziou**

I. Kontogiannis, G. Tsiropoula, K. Tziotziou: A study of a quiet solar network region structure and dynamics using ground and space based observations

R. Gafeira, A. Lagg, M. van Noort, S. K. Solanki: Temporal variations in small scale chromospheric fibrils observed by Sunrise II

T. M. D. Pereira et al.: Clashing views of spicules and fibrils

Coffee break 10.35 – 11.05 (Poster viewing)

Invited Review 2: Magnetic flux emergence in the quiet Sun - **L. Bellot Rubio**

M. Bodnárová, D. Utz, J. Rybák: Possible chromospheric response to the dynamics of photospheric G-band bright points

Invited Review 3: Quiet Sun magnetism: a new perspective from GRIS / GREGOR - **A. Lagg**

12.30 – 14.30 Lunch

Afternoon (14.30 - 18.00)

Session 1: Observations of the Sun:

Chairperson: G. Tsiropoula

Invited Review 4: Sunspot structure and evolution - **C. Denker**

M. Verma, C. Denker, S.J. González Manrique, M. Sobotka and the GREGOR Team: High-resolution 3D flow fields around solar active regions

P. Romano, V. Capparelli, M. Falco, S.L. Guglielmino, A. Jhel, M. Murabito, F. Zuccarello: Study of photospheric and chromospheric dynamics using high resolution spectropolarimetric observations

C. Robustini, J. Leenaarts, J. De la Cruz Rodriguez, L. Rouppe Van Der Voort: Peacock jets above the light bridge of a sunspot

Coffee break 16.05 – 16.35 (Poster viewing)

M. Sobotka, J. Dudík, C. Denker, H. Balthasar, J. Jurčák, W. Liu, and the GREGOR Team: Slipping reconnection in a solar flare observed with GREGOR

G. Trottet, **J.-P. Raulin**, A. MacKinnon, C.G. Giménez de Castro, P.J. Simões, D. Cabezas, V. de La Luz, M. Luoni, P. Kaufmann: Origin of the 30 THz emission during the 2012 March 13 solar flare at 1720 UT

P. Kotrč, P. Heinzel, O. Procházka: On measurements of continuum flux in solar flares. Instrument and first results

Evening (18.15): Welcome reception (*Museu Nacional de Machado de Castro, Largo Dr. José Rodrigues, Coimbra*)

Tuesday, 6 October

Morning (9.00 - 12.30)

Session 1: Observations of the Sun:

Chairperson: M. Temmer

Invited Review 5: Observational needs for understanding solar magnetic activity and the formation of large-scale transient events - **L. van Driel-Gesztelyi**

P. K. Manoharan: Radial evolution of coronal mass ejections in the inner heliosphere

R. D. Cunha-Silva, **F. C. R. Fernandes**, C. L. Selhorst: Shock wave driven by CME evidenced by metric type II burst and EUV wave

Coffee break 10.15 – 10.45 (Poster viewing)

Invited Review 6: The need for synoptic solar observations from the ground - **A. Pevtsov**

L.O.T. Fernandes, P. Kaufmann, E. Correia, C. G. Giménez de Castro, A. Marun, P. Pereyra, J.-P. Raulin, A. B. M. Valio: Comparative study of solar bursts at sub-THz frequencies

P. Schwartz, P. Heinzel, S. Jeřič, J. Rybák, P. Kotrč, F. Fárník, Yu. A. Kupryakov, E. E. DeLuca, L. Golub, P.R. Jibben, U. Anzer, A.G. Tlatov, S.A. Guseva: Is it possible to use the green coronal line instead of X rays to cancel an effect of the coronal emissivity deficit in estimation of the prominence total mass from decrease of the EUV-corona intensities?

A. Kobelski, T.S. Bastian: Probing Solar wind turbulence with the Jansky Very Large Array

12.30 – 14.30 Lunch

Afternoon (14.30 - 18.00)

Session 2: Solar image management, spectro-polarimetric and processing techniques:

Chairperson: L. van Driel-Gesztelyi

Invited Review 1: Image restoration techniques for solar ground-based imaging - **M. Löfdahl**

B. Schmieder, N. Labrosse, P. Levens, A. Lopez Ariste, S. Gunár: Magnetic field and plasma diagnostics from coordinated prominence observations

Invited Review 2: The effects of instrumental properties on Stokes Inversions - **M. van Noort**

Coffee break 16.00 – 16.30 (Poster viewing)

Invited Review 3: The visualization of solar data: volume, variety, and value - **J. Ireland**

A. Hamada, T. Asikainen, I. I. Virtanen and K. Mursula: Identifying coronal holes from synoptic maps of SOHO/EIT and SDO/AIA EUV images

T. Barata, P. Pina, S. Carvalho, R. Gafeira, A. Garcia: Ground based observations of sunspots from the observatory of Coimbra: evaluation of different automated approaches to analyse its datasets

J. Palacios and the SeNMEs team: Solar eruptive events as seen by the Spanish Space Weather Service SeNMEs

Wednesday, 7 October

Morning (9.00 - 12.15)

Session 3: Theory and modeling - comparison to observations

Chairperson: P. Schwartz

Invited Review 1: Modeling the Mg II h & k lines observed by IRIS and the Ca II H & K lines observed from the ground - **J. Leenaarts**

A. Sukhorukov, J. Leenaarts: Implementation of partial frequency redistribution effects for chromospheric resonance spectral lines in 3D model atmospheres

N. Vitas, E. Khomenko: Solar Magnetoconvection simulated with the MANCHA code

Coffee break 10.15 – 10.45 (Poster viewing)

Invited Review 2: On the role of MHD waves in heating localised magnetic structures: Where are we? - **R. Erdélyi**

D. Passos: Meridional circulation dynamics: comparing observations and results from EULAG global 3D MHD simulations

M. Loukitcheva: Probing the Sun with ALMA: observations and simulations

12.15 – 13.45 Lunch

Afternoon (13.45 - 19.00)

Excursions: Spectroheliograph – Geophysical and Astronomical Observatory of the UC; Conimbriga – ruins of the ancient roman town

Thursday, 8 October

Morning (9.00 - 12.30)

Session 3: Theory and modeling - comparison to observations

Chairperson: R. Erdélyi

Invited Review 3: Numerical simulations of dynamic phenomena in the solar corona - **T. Török**

S. T. Wu, N. Gopalswamy: What Additional Measurements Are Needed for the Magnetohydrodynamic (MHD) Simulation of Solar Atmospheric Dynamics?

J. Thalmann, Y. Su, **M. Temmer**, A.M. Veronig: Exceptions to the rule: the X-flares of AR 2192 lacking coronal mass ejections

I. Chifu, B. Inhester, T. Wiegmann: Coronal magnetic field modeling using stereoscopy constraints

Coffee break 10.35 – 11.05 (Poster viewing)

Session 4: Long-term variations of the Sun

Chairperson: D. Maia

Invited Review 1: Long term solar activity - **I. Usoskin**

F. Clette, L. Lefèvre, E.W. Cliver, L. Svalgaard: The revised sunspot number: new properties and new data standards

A. Tlatov, K. Kuzanyan, V. Vasilyeva: Tilt angles of solar filaments over the century: 1919-2014

M. Roth: The Solar Physics Research Integrated Network Group - SPRING

12.30 – 14.30 Lunch

Afternoon (14.30 - 17.45)

Chairperson: J. Palacios

Invited Review 2: Long-term Synoptic Observations of CaII-K and Magnetic Flux - **L. Bertello**

T. Chatzistergos, I. Ermolli, S.K. Solanki, N.A. Krivova: Exploiting historical Ca II K spectroheliogram archives: Preliminary results from four archives

Invited Review 3: Space Weather using ground based data - **A. Veronig**

Coffee break 16.00 – 16.30 (Poster viewing)

R.F. Pinto, A. Rouillard: The slow and fast solar wind during the activity cycle

A. Morozova, J.J. Blanco, P. Ribeiro: Co-variability of the atmospheric and geophysical parameters in mid-latitude troposphere

Discussion on revised sunspot number series: Knowns and unknowns about the sunspot activity for the last three centuries

Evening (20.15): Conference dinner in the "Palácio de São Marcos", an old Portuguese edifice located at 20 km from Coimbra.

Friday, 9 October

Morning (9.00 - 12.30)

Session 4: Long-term variations of the Sun

Chairperson: I. Kontogiannis

Invited Review 4: Variations of the solar irradiance - S.K. Solanki

J. Padmanabhan: Are we on the verge of a Maunder-like Grand Solar Minimum?

T. Barlyaeva, P. Lamy, A. Llebaria: The State of the Corona during the Weak Solar Cycle 24: the View from LASCO Images

Coffee break 10.15 – 10.45 (Poster viewing)

Session 5: Facilities for ground-based and space solar observations

Chairperson: M. Sobotka

Invited Review 1: The GREGOR Solar Telescope - W. Schmidt

H.-P. Doerr: High-precision spectroscopy with extremely accurate wavelength calibration: centre to limb variation of line shapes and convective shifts

Invited Review 2: European Solar Telescope (EST) - M. Collados

12.30 – 14.00 Lunch

Afternoon (14.00 - 16.30)

Session 5: Facilities for ground-based and space solar observations

Chairperson: F. Clette

Invited Review 3: Chinese Giant Solar Telescope - Y. Deng

M. van Noort: MiHI: a new imaging spectrograph

Invited Review 4: Solar Orbiter - Exploring the Sun-Heliosphere Connection - D. Müller

Invited Review 5: Science Objectives and Instrument Designs of the SOLAR-C Mission - Y. Suematsu

Conclusions of the Meeting

17.00: Meeting of the SOC/LOC

SOC - SCIENTIFIC ORGANIZING COMMITTEE

J. Abouadarham (OBSPM, Paris-Meudon, France)

F. Clette (ROB, Brussels, Belgium)

I. Dorotovič (OGAUC/CGUC, Coimbra; UNINOVA-CA3, Caparica, Portugal;
SCO, Hurbanovo, Slovakia) - **co-chair**

C. Fischer (KIS, Freiburg, Germany)

L. Fletcher (University of Glasgow, UK)

N. Gopalswamy (NASA/GSFC, Greenbelt, USA)

A. Kučera (AI SAS, Tatranská Lomnica, Slovakia) - **co-chair**

D. Maia (CICGE, University of Porto, Portugal)

M. Sobotka (AI ASCR, Ondřejov, Czech Republic)

Y. Suematsu (NAOJ, Tokyo, Japan)

M. Temmer (IGAM, University of Graz, Austria)

J. Trujillo Bueno (IAC, La Laguna, Tenerife, Spain)

G. Tsiropoula (NOA, Athens, Greece)

B. Vršnak (Hvar Observatory, Zagreb, Croatia)

LOC - LOCAL ORGANIZING COMMITTEE

T. Barata (OGAUC/CITEUC, Coimbra, Portugal)

S. Carvalho (OGAUC/ CITEUC, Coimbra, Portugal)

I. Dorotovič (OGAUC/ CITEUC, Coimbra; UNINOVA-CA3, Caparica, Portugal; SCO, Hurbanovo, Slovakia)

T. Esperança (OGAUC, Coimbra, Portugal)

J. Fernandes (OGAUC/ CITEUC, Coimbra, Portugal) – **Chair**

A. Garcia (OGAUC, Coimbra, Portugal)

D. Maia (CICGE, University of Porto, Portugal)

A. Morozova (OGAUC/ CITEUC, Coimbra, Portugal)

D. Passos (CENTRA - Instituto Superior Técnico, Univ. de Lisboa, Portugal; GRPS, Univ. Montreal, Canada)

DEADLINES

- 15 September 2015 - Closing date for late registration and for hotel reservation!
http://www.mat.uc.pt/~cspm2015/registration_accommodation.html
- Final Announcement
- **4 October 2015** - Arrival, registration of participants
- **5 October 2015** - Meeting starts
- **9 October 2015** - Meeting ends
- **30 November 2015** - Submission deadline for proceedings manuscripts

PRESENTATION OF CONTRIBUTIONS

The invited talks for CSPM-2015 have 30 min (plus 5 min for discussion)

Other oral contributions have 18 min (plus 2 min for discussion).

The maximum size of posters is 130 cm x 180 cm (width x height).

Conference PC + Video projector will be available for oral contributions.

Wi-fi internet connection and few PCs with internet connection will be available for participants at the Meeting site.

PROCEEDINGS

The proceedings of the Coimbra Solar Physics Meeting 2015 "Ground-based Solar Observations in the Space Instrumentation Era" will be published in the ASP (Astronomical Society of the Pacific) Conference Series [<http://www.astrosociety.org/pubs/cs/confseries.html>]. The editors are I. Dorotovič, C. Fischer, and M. Temmer.

The style of manuscripts (LATEX style files) will be available soon at <http://www.mat.uc.pt/~cspm2015/proceedings.html>.

The following page limitations on the final manuscript for the corresponding type of paper were set:

***Invited talk* – 10 pages, *Contributed talk* – 6 pages, *Poster* – 3 pages.**

The deadline for manuscript submission will be 30 November 2015!

VISA APPLICATIONS

Those who need visa (participants and/or accompanying persons) to enter Portugal have to contact a Portuguese Embassy. If you need a letter of invitation, please contact João Fernandes at: cspm2015@mat.uc.pt and jmfern@mat.uc.pt.

WEATHER FORECAST

<http://www.ipma.pt/en/otempo/prev.localidade/?localID=6&cidadeID=6>

or

<http://www.accuweather.com/en/pt/coimbra/272818/october-weather/272818?monyr=10/1/2015>

We look forward to seeing you in Coimbra.

João Fernandes (OGAUC/CITEUC, Coimbra, Portugal)

Ivan Dorotovič (OGAUC/ CITEUC, Coimbra; UNINOVA-CA3, Caparica, Portugal; SCO, Hurbanovo, Slovakia)

Dalmiro Maia (CICGE UP, Porto, Portugal)

Dário Passos (CENTRA - IST, Univ. de Lisboa, Portugal; GRPS, Univ. Montreal, Canada)