Joint

Eighteenth International Conference on HIGH PRESSURE SEMICONDUCTOR PHYSICS

&

Second International Workshop on HIGH PRESSURE STUDY OF SUPERCONDUCTORS



July 23 - 27, 2018 CosmoCaixa Museum Barcelona Spain

Third Announcement (Call for papers)

Call for papers

Submission of original work is solicited covering the following list of scientific topics:

- 1. Electronic structure
- 2. Mechanical properties including vibrational, elastic and piezoelectric properties
- 3. Optical properties

- 4. Electrical transport phenomena in semiconductors & superconductors
- 5. Impurity and defect states
- 6. Structural studies including phase transitions
- 7. Magnetic diluted semiconductors & spin dependent properties
- 8. Thermoelectricity and thermal properties
- 9. Carbon-related semiconductors
- 10. Low-dimensional, layered & nanostructured materials
- 11. Superconducting materials & pressure-induced metallization and superconductivity
- 12. Organic & hybrid materials
- 13. Strongly correlated electron systems
- 14. Novel materials, structures and devices
- 15. New experimental or computational techniques

Publication

Conference participants are kindly invited to submit original manuscripts for publication in a Focus Series on High Pressure Semiconductor and Superconductor Physics in the international journal Papers in Physics (http://www.papersinphysics.org/index.php/papersinphysics/pages/view/highpressuresemisuperconductor). After peer-review, accepted manuscripts will be published open access as regular articles as part of the Focus Series. In Papers in Physics, authors may ask for Open Review, which means that the reviewers are not anonymous and their names will be stated in the published paper. Moreover, if the editors consider the reports valuable for the readers, the publication of Commentaries from the reviewers are encouraged, with due Replies from authors, if necessary.

Reception of submissions for this focus series of Papers in Physics edited by Andrés Cantarero, Alejandro R. Goñi and J. Sebastián Reparaz is open.

If you wish to submit a manuscript for inclusion in this focus series, you can follow the standard process for regular articles (see authors guidelines: http://www.papersinphysics.org/index.php/papersinphysics/about/submissions#authorGuidelines) and indicate you would like the paper to be considered for the "Focus series on High Pressure Semiconductor and Superconductor Physics". The articles will be limited in length to a MAXIMUM of 10 printed pages for invited speakers and 5 pages for contributed papers.

Presentation Formats

<u>Invited talks:</u> 30 min total (25 min talk + 5 min discussion).

<u>Contributed talks:</u> 15 min total (12 min talk + 3 min discussion).

A computer for projection will be available. Authors are required to bring their presentation on either a memory stick or use their own computer.

<u>Posters:</u> Pin-up boards will be provided to accommodate 120 cm x 90 cm (DIN A0) posters.

Invited Speakers

Marvin L. Cohen, Berkeley University, USA Isaac F. Silvera, Harvard University, USA Mikhail Eremets, MPI for Chemistry, Mainz, Germany Eugene Gregoryanz, University of Edinburgh, UK John S. Tse, University of Saskatchewan, Canada Paolo Postorino, University of Roma Sapienza, Italy Bingbing Liu, Jilin University, China Sofia-Michaela Souliou, ESRF, Grenoble, France Stanislaw Krukowski, UNIPRESS, Warsaw, Poland Olivier Pages, Université de Lorraine, France Sergey Ovsyannikov, University of Bayreuth, Germany Shanti Deemyad, University of Utah, USA Kazuyuki Matsubayashi, Tokyo, Japan Julio Pellicer-Porres, Valencia University, Spain Manuel Núñez-Regueiro, Institut Neel CNRS, France Aitor Bergara, Universidad del País Vasco (EHU), Spain Shinji Watanabe, Kyushu Institute of Technology, Japan Ingo Loa, University of Edinburgh, UK Vladimir Solozhenko, CNRS, Paris, France Agata Kaminska, Institute of Physics, Warsaw, Poland Miriam Peña-Alvarez, University of Edinburgh, UK Suchi Guha, University of Missouri, USA Alfonso San Miguel, University of Lyon, France Yoshihisa Mori, Okayama University of Science, Japan Markus R. Wagner, TU Berlin, Germany

Venue

The HPSP18&WHS2 conference will be held at the *CosmoCaixa Museum*, which is the first interactive science museum in Spain. This space would provide a unique and

stimulating environment for all conference participants. The Museum is located in the west part of Barcelona and about 15 minutes (highly dependent on traffic) drive from downtown Barcelona, easily accessible by public transportation such as bus and train (FGC).

More information on the facilities and their location of the CosmoCaixa Museum of Science are available at:

https://obrasociallacaixa.org/en/ciencia/cosmocaixa/elmuseo

Registration

Please use the webpage of the conference to register. Payment can be realized either by bank transfer at the account indicated in the registration form or by credit card. **Presenting authors please remember to register on**

Presenting authors please remember to register o time!

The conference registration fee includes (also for students and retired scientists) the proceedings, welcome reception and conference banquet.

Organizing Committee

A.R. GOÑI (Chair), Barcelona, Spain
F. RODRÍGUEZ (Co-Chair), Santander, Spain
M.I. ALONSO (Local Arrangements), Barcelona, Spain
A. MORENO (Local Arrangements), Barcelona, Spain
A. FRANCISCO (Local Arrangements), Barcelona, Spain
A. CANTARERO (Publication), Valencia, Spain
J.S. REPARAZ (Publication), Barcelona, Spain

Further information

Conference updates will be posted at: https://congresses.icmab.es/hpsp18-whs2/

For enquiries please contact:

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