Minisymposium on HPC Applications in Physical Sciences

TOPICS
Modeling and numerical simulations have become important tools in physical sciences and materials design. Significant results have been achieved in simulations of static and dynamic properties of the condensed and soft matter systems using the HPC resources. The Minisymposium aims at addressing the following topics:

- scalability of the simulation tools in the HPC environment;
- the overlap between the ab-initio and phenomenological modeling;
- non-classical dynamics in the low-dimensional magnetism;
- new approaches and simulations methods;
- new tools and environments in materials science computations.

Scientific success of this Minisymposium will result not only from an overview of high-performance computing in a variety of systems, but also from recognizing the limitations of the available theoretical tools and from the identification of challenging areas where new efforts will be required to further advance the field.

PAPER SUBMISSION AND PUBLICATION
Abstracts and original papers are invited for the Minisymposium. They should be prepared according to the Springer LNCS and PPAM 2017 rules and be submitted using the online submission system. Submissions will be refereed and accepted on the basis of their scientific merit and relevance to the workshop topics. Only papers presented at PPAM 2015 will be included in the proceedings, to be published after the conference by Springer in the LNCS series.

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IMPORTANT DATES:
Submission of Papers: April 21, 2017
Notification of Acceptance: May 31, 2017
Camera-Ready Papers: Nov. 15, 2017

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