

Proceedings of the  
47<sup>th</sup> International School and Conference  
on the Physics of Semiconductors  
“Jaszowiec 2018”

Szczyrk, Poland, June 16–22, 2018

*Editors of the Proceedings:*

Bartłomiej S. Witkowski,  
Piotr Bogusławski

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## Preface

This issue of Acta Physica Polonica A contains 18 contributed papers presented during the 47<sup>th</sup> International School and Conference on the Physics of Semiconductors – “Jaszowiec 2018”, which took place in Szczyrk between June 16<sup>th</sup> and 22<sup>nd</sup>, 2018. The meeting was organized by:

- Institute of Physics, Polish Academy of Sciences
- Faculty of Physics, Institutes of Experimental and Theoretical Physics, University of Warsaw
- Divisions of Experimental and Theoretical Physics, Wrocław University of Science and Technology
- Institute of High Pressure Physics, Polish Academy of Sciences
- Institute of Electron Technology
- Committee on Physics, Polish Academy of Sciences
- Polish Academy of Sciences

The Conference was attended by 212 participants from 15 countries (Denmark, France, Germany, India, Italy, Lithuania, Netherlands, Poland, Russia, Spain, Switzerland, Turkey, Ukraine, United Kingdom and United States). The scientific program consisted of 21 invited lectures and 156 contributed papers (38 oral presentations and 118 posters). The scope of the Conference covered a broad range of topics related to semiconductor physics, including experiment, theory, modeling, and technology. Special accents were put on low-dimensional and layered semiconductor systems, topological matter, polariton condensate or photonics. The application aspects were dealt with during the session devoted to III-nitrides. The Conference was preceded by the School, i.e., a two-day tutorial session addressed mainly to young scientists. This event was attended by 106 participants. In a series of six lectures given by outstanding scientists the School provided an extensive introduction to hot topics relevant to modern semiconductor physics.

We would like to thank the members of the Program and Advisory Committees who took the responsibility for the whole scientific program of the School and the Conference, and express our gratitude to Aneta Wodzińska and Maciej Zajączkowski for their excellent work. Finally, we would like to acknowledge financial support from Polish Academy of Sciences, from U.S. Army institutions: Office of Naval Research Global and International Technology Center-Atlantic, and from commercial sponsors: AP Vacuum, Pfeiffer Vacuum, SCIA Systems, Raith, Labis, Veeco and Hiden Analytics.

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