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Preface

This issue contains some of the papers presented at the XXXVIII International School and Conference on the Physics of Semiconductors “Jaszowiec”, Krynica-Zdrój, Poland, June 19–26, 2009. This traditional meeting of the Polish and international semiconductor community has been organized annually by several Polish scientific institutions since 1970. The last event has been organized by the Institute of Physics of the Polish Academy of Sciences (PAS), Institute of Experimental Physics and Institute of Theoretical Physics at the Faculty of Physics, University of Warsaw, the Institute of High Pressure Physics (“Unipress”) PAS, and the Committee of Physics PAS. Organized for the first time in a new place, mountain resort Krynica-Zdrój, the event has gathered about 220 scientists from various countries.

The program of the School and Conference included 4 three-hour long tutorial lectures, 25 invited talks, and 153 contributed (oral and posters) presentations devoted to mostly all research fields in the semiconductor physics, such as technology, experiment, theory, and modeling. This volume contains 5 invited papers followed by 58 contributed ones that have been ordered according to the following topics: (1) quantum transport, graphene, carbon nanotubes, (2) quantum wells, 2D systems including quantum Hall effect (QHE), (3) quantum wires, (4) quantum dots including dots with Mn, (5) spintronics and spintronic materials, (6) nitrides and ZnO, (7) devices, (8) exotic materials, impurities, various phenomena.

Organizers of the School and Conference in 2009 would like to acknowledge the financial support from Polish Academy of Sciences, University of Warsaw, and Air Force Office for Scientific Research in U.S.A.

We invite all researchers in the fields related to the semiconductor physics to present their achievements during next “Jaszowiec” conferences in Krynica-Zdrój. Please visit the conference website (www.ifpan.edu.pl/jaszowiec) for information on the previous and actual events.

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