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Computer Simulations in Physics and beyond (CSP2017)

To cite this article: 2018 *J. Phys.: Conf. Ser.* **955** 011001

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Preface

Computer simulations are nowadays a firmly established third pillar of modern natural sciences, complementing experimentation and paper-and-pencil theoretical studies. Simulations, experiments *in silico*, prove indispensable in diverse areas of research in physics and other natural sciences.

This volume collects papers based on presentations delivered at the Second International Conference on Computer Simulations in Physics and beyond (CSP2017), which took place October 9-12, 2017 in Moscow. The Conference, which continues a biannual tradition started by an inaugural conference in 2015, took place on campus of A.N. Tikhonov Moscow Institute of Electronics and Mathematics, was jointly organized by the National Research University Higher School of Economics, the Landau Institute for Theoretical Physics and Science Center in Chernogolovka.

As the name implies, the Conference is a multidisciplinary meeting, with a focus on computational physics and related subjects. Indeed, methods of computational physics prove useful in a broad spectrum of research in multiple branches of natural sciences, and this volume provides a sample.

We hope that this volume will interest a wide range of readers, and we are already looking forward for the next conference in this biannual series.

Moscow, Russia
November, 2017

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