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**Dariusz Bocian
Ryszard S. Romaniuk**
Editors

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Introduction

We are pleased to present the proceedings from the Fourth Conference on Superconductivity and Particle Accelerators (SPAS 2018). The conference was held 27–29 November 2018 in Kraków at The Henryk Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences (IFJ PAN). This volume contains 22 articles submitted by the authors. The full presentations from the SPAS 2018 sessions are available publicly at the conference website, presented in the CERN InDiCo standard: <https://indico.ifj.edu.pl/event/214/timetable/#all.detailed>. The conference gathered around 80 participants from main institutions active in accelerator technologies in Poland and from a few key European, American, and Asian accelerator research laboratories. A total of 70 oral and poster papers were presented.

The conference was devoted to research in the domain of superconductivity and its applications in science, as well as to the research in the field of particle accelerators, conducted in Polish research institutions as well as by Polish scientists working in the international laboratories. It is a continuation of the previous conferences, held at the IFJ PAN in 2012, 2014, and 2016. The objective of this conference was to identify current and potential areas of the research in superconductivity and particle accelerators, developed and possible to be developed in Poland and to determine the needs in the infrastructure to support this research. The previous SPAS conferences were held as follows: SPAS 2012 in conjunction with the TIARA Poland mid-term meeting 2012 - September 27-28; SPAS 2014 - December 9-10; and SPAS 2016 - December 6-7.

Dariusz Bocian
Ryszard S. Romaniuk