

FOREWORD

The present number of *Romanian Reports in Physics* celebrates a special moment in the history of the journal that now reaches its seventieth volume. The first volume was published in 1950 under the initial Romanian name of *Studii și Cercetări de Fizică* (in English: *Studies and Researches in Physics*) that was changed in 1992 to *Romanian Reports in Physics*. The journal had a publication rate of one volume per year, with the notable exception of the two subsequent short volumes that were published in 1964.

In appreciation of the efforts of the Editorial Boards that insured the uninterrupted publication of the journal, as well as the efforts of a plethora of both Romanian and foreign physicists whose works were published in the journal, it is our great privilege to bring forward this Anniversary Number. The historical overview that opens this number highlights a series of momentous events recorded over the past seven decades that are significant both for the journal and the Romanian physics community. Surveying the list of authors who published in the journal we implicitly speak about some of the outstanding Romanian physicists who were instrumental in shaping physics research in Romania. Complementary, our historical survey also shows that the remarkable scientific achievements recorded after the Second World War were made possible by the joint efforts of The Romanian Academy, The Institute of Atomic Physics and the National Research Institutes that emerged from it, and, lastly, the National Universities. The introductory overview is followed by original scientific contributions and topical surveys that cover experimental and theoretical investigations on different physical systems. The thematic diversity of the articles in this number reflects on one hand the wide scientific coverage of the journal, while on the other hand it speaks of the uninterrupted development of new research directions, some of which, in time, turned into distinct scientific fields.

The present number bridges between the early research directions covered by the journal, which are presented in detail in the introductory historical overview, and the trending research topics addressed by the original scientific articles that follow the overview. We take this occasion to thank all authors and referees for their efforts and look forward to the future volumes of the journal.

As 2018 marks the anniversary of 100 years since the unification of all Romanian provinces within a single nation state, this Anniversary Number of *Romanian Reports in Physics*, in particular the introductory historical account, can be regarded as a small tribute to this event.

The Editorial Board of *Romanian Reports in Physics*