Special Issue

Radiation Spectroscopy with Solid Scintillators for Rare Events

Message from the Guest Editors

Crystal scintillators are one the most useful and effective tool for the detection and spectroscopy of a wide variety of radiations. The continuous development of their performances allows applications in many challenging research fields. In fact, crystal scintillators are fundamental instruments to study most important problems in in particle and nuclear physics, astrophysics and cosmology. Further to this, when the radio-purity of such detectors is an additional requirement, their use in the investigation of rare processes becomes extremely competitive. Moreover. the possibility of significant enrichments in some specific isotopes strongly enlarges the applications for the investigation of several rare processes, such as dark matter candidates of various natures, \omega decay modes. rare nuclear decay modes, solar axions, electron stability, matter stability, search for exotic particles in cosmic rays, etc. The aim of this Special Issue is to collect contributions for a suitable discussion on the performances and developments of crystal scintillators for rare events.

Guest Editors

Dr. Vincenzo Caracciolo

Prof. Dr. Rita Bernabei

Dr. Pierluigi Belli

Deadline for manuscript submissions

closed (31 January 2021)



Physics

an Open Access Journal by MDPI

Impact Factor 1.8 CiteScore 3.1



mdpi.com/si/36662

Physics Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 physics@mdpi.com

mdpi.com/journal/ physics





Physics

an Open Access Journal by MDPI

Impact Factor 1.8 CiteScore 3.1



About the Journal

Message from the Editor-in-Chief

Physics plays a crucial role in our understanding of the world and is of huge significance for the development of other sciences. This ensures that physics is always attracting heightened attention and is at the center of human interest. Physics is devoted to all aspects of physics and looks into news and progress of modern physics, seeking new horizons and future discoveries. The journal aims to provide an advanced forum for discussion of contemporary problems in physics and its development.

Editor-in-Chief

Prof. Dr. Edward Sarkisyan-Grinbaum

- 1. Experimental Physics Department, CERN, 1211 Geneva 23, Switzerland
- 2. Department of Physics, The University of Texas at Arlington, Arlington, TX 76019, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, INSPIRE, Astrophysics Data System, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 25.9 days after submission; acceptance to publication is undertaken in 20.7 days (median values for papers published in this journal in the first half of 2025).

