Special Issue

The Fundamental Role of Precision Atomic-Physics Measurements in Modern Science

Message from the Guest Editors

Atomic physics is presently the most precise science available to humankind. We all know that the time standard is presently defined by an atomic transition, which became possible as a result of high-precision measurements. Further improvement of experimental precision, which is now entangled with high-precision theory, may lead to breakthroughs in our understanding of fundamental principles of nature. Precise measurements may also open new avenues in technology and applied sciences. This Special Issue will include original and review papers on high-precision atomic measurements and related theory with a focus on inter-science connections, prospects of new applications, and description of the most important problems in the way of improvement of precision. Aspects of nuclear, molecular and optical physics directly related to atomic physics may also be discussed in the submitted articles but should not be the main topic, which should be atomic physics.

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Message from the Editor-in-Chief

The scope of *Atoms* is deliberately wide and encompasses a large part of theoretical and experimental atomic,
molecular, nuclear, and chemical physics in order to encourage cross-disciplinary connections, while supporting the more traditional idea of individual subfields. The journal is also interested in papers concerning
the computation and compilation of data related to applications in the above areas. Details of experimental methods and codes are welcome. Your research is taken seriously and peer-reviewed with care. I encourage you
to contact me or any of the Editorial Board Members for further information.

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