

Special Issue

Atomic Processes in Plasmas and Gases: Symmetries and Beyond

Message from the Guest Editor

Dear colleagues, Considerations of symmetry often play an important role in theoretical advances, especially in plasma spectroscopy and molecular spectroscopy. For example, the employment of additional conserved quantities originating from algebraic symmetries of underlying quantum systems frequently allows obtaining important analytical results and/or leads to more robust codes. This Special Issue welcomes presentations of new theoretical and experimental results on atomic processes in plasmas and gases (with or without the use of symmetries). This Special Issue also welcomes presentations of reviews (full-size or mini reviews) on any subfield of this broad research area.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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