



an Open Access Journal by MDPI

Parity-Time Symmetry in Optics and Photonics

Guest Editor:

Prof. Dr. Blas Manuel Rodríguez-Lara

Instituto Nacional de Astrofísica, Óptica y Electrónica, Calle Luis Enrique Erro No. 1, Santa María Tonantzintla, Puebla Código 72840, México

Deadline for manuscript submissions: closed (31 December 2016)

Message from the Guest Editor

Dear Colleagues,

Optical systems with balanced linear gain and loss have proved a fertile ground to realize PT-symmetric models. Collections of thin films, engineered volumetric optical potentials, scattering centers in waveguides, discrete systems involving effective coupled modes, in general, any optical systems that obeys a Schrödinger-like equation, where an idea of spacetime reflection is created via linear loss and gain, can be used to realize optical analogs of quantum systems described by non-Hermitian PTsymmetric Hamiltonians.

In this Special Issue of *Symmetry*, we are interested in such systems, and ask for your help to explore their spectral singularities, underlying symmetries, propagation dynamics, and applications in all fields of optics.

Prof. Dr. Blas Manuel Rodríguez-Lara *Guest Editor*









an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov

 Institució Catalana de Recerca i Estudis Avançats (ICREA), Passeig Luis Companys, 23, 08010 Barcelona, Spain
Institute of Space Sciences (ICE-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (General Mathematics)

Contact Us

Symmetry Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/symmetry symmetry@mdpi.com X@Symmetry_MDPI