



symmetry



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Neutron Simulation and Neutron Scattering

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Deadline for manuscript submissions:

closed (31 March 2024)

Message from the Guest Editor

Dear Colleagues,

We hereby solicit contributions for a special issue of the journal “Symmetry” on Neutron Scattering, and Neutron Scattering Simulations.

Symmetry is at the heart of many neutron scattering experimental techniques, whether arising from crystalline materials forming the sample or from the instrumentation itself. Due to the scarcity of useful neutrons, symmetry is in fact often a precondition of performing the experiment at all. With this in mind, it is very fitting that a special issue on this topic should be published in the present journal.

In general, neutron scattering experiments provide unique abilities to probe the inner workings of materials nondestructively. To exemplify, the technique has proven invaluable when probing magnetic materials, dynamics in solid state materials, or in cultural heritage studies where damaging the object measured must be preserved.

The special issue comes especially timely given the new and powerful neutron sources coming online within the next few years such as the European Spallation Source (ESS) and the planned Second Target Station at Spallation Neutron Source...



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Special Issue



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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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