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New Trends in Dark Matter Detection

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Message from the Guest Editor

Numerous astrophysical observations have revealed that the dominant component of matter in the Universe is non-luminous and non-baryonic, the so-called dark matter. So far the particle nature of dark matter remains largely unknown. Popular dark matter candidates such as the weakly-interacting massive particles have been extensively studied and searched by experiments. So far, all the current experimental searches for dark matter non-gravitational interactions including space-based indirect searches, underground direct searches and collider searches return null results, which has trigger great efforts in looking for novel dark matter candidates and detection approaches. The objective of the present Special Issue is to publish original papers and reviews which adequately represent the ongoing progress in this fast developing research area.

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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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