

Special Issue

Hypatia 2023–Particle Physics and Statistical Mechanics

Message from the Guest Editor

In honoring Hypatia of Alexandria (c.370CE–c.415CE), the Hellenistic Neoplatonist Mathematician, Astronomer, and Philosopher, the Egyptian Center for Theoretical Physics (ECTP) organizes this International Conference. The first edition of this conference is devoted to "Particle Physics and Statistical Mechanics". Thereby, the participation for female as well as other minority groups of scientists and researchers is especially promoted. Hypatia was the daughter of the last great mathematician Theon of Alexandria (c.335CE–c.405CE), who also tutored her in mathematics, astronomy, and philosophy. Hypatia was well known for her lectures and public outreach. She was admired because of her work on the ideas of conic sections introduced by Apollonius, especially how she divided cones into different parts by a plane. From this concept, the ideas of hyperbolas, parabolas, and ellipses were born. She mastered making related concepts easier to understand, even in ancient times. Hypatia never married. She was the first female scientist to whom such a profound mathematical impact was attributed.

Guest Editor

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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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