

AL FARABI

11th International Conference on Social Sciences
August 19-20, 2022/Ataturk University, Erzurum, Turkey



ABSTRACTS BOOK

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Dr. Seda Ağgöl
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ISBN: 978-625-8213-25-6

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by

IKSAD GLOBAL PUBLISHING HOUSE

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farabidergisi@gmail.com www.farabicongress.org

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Issued: 10.09.2022

ISBN: 978-625-8213-25-6

CONFERENCE ID

CONFERENCE TITLE

Al-Farabi 11TH INTERNATIONAL CONFERENCE ON SOCIAL SCIENCES

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**THE FUNDAMENTAL PHYSICAL CONSTANTS AS THE IMPORTANT ELEMENTS OF THE
WORLD BUILDING****Wen Xiaojing***Ph.D. student, Ternopil Volodymyr Hnatiuk National Pedagogical University, Ukraine
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ORCID ID: 0000-0002-9893-2820***Viktor Matsyuk***Ph.D. (Pedagogical Sciences), Associate Professor, Ternopil Volodymyr Hnatiuk National Pedagogical University,
Ukraine
ORCID ID: 0000-0002-8710-3082***ABSTRACT**

Physics is a natural science that studies the general properties of matter and phenomena in it. The system of knowledge about nature, which is formed in the minds of people in the process of researching natural phenomena using laws of nature discovered by science, constitutes a scientific worldview. A scientific worldview is created by mankind in the process of its development. One of the components of the scientific worldview is the physics worldview.

The aim of our work is to prove the importance of fundamental physical constants for study in a physics course. The functions of the physics worldview consists not only in the reflection and explanation of natural phenomena, but also in the fundamental role of world building. The physics worldview concretizes philosophical ideas about the types of matter (matter, antimatter, and field) and forms of its existence (motion, space, and time). In this context, the discovery of fundamental physical constants can be considered one of the significant achievements of physical science, as they provide information about the most fundamental properties of matter.

The numerical values of the fundamental constants are not random. They are determined by stable bound states in nature: nuclei, atoms, stars, galaxies. A quantitative change in the fundamental physical constants would lead to a change in world building, as well as to the impossibility of the existence of the world in which we live. The existing set of values of fundamental physical constants is a necessary condition for the stable existence of all inanimate and living nature in all forms known to us. Since the fundamental physical constants are the important elements of the world building, the fundamental physical constants belong to the fundamental concepts of the physics course.

Every four years, the Committee on Data for Science and Technology recommended values of fundamental physical constants. The values are determined by the method of least squares on the basis of all available theoretical and experimental information. The complete list of fundamental physical constants is publicly available.

Keywords: scientific worldview, physics worldview, world building, fundamental physical constants, physics course.