
Abstracts

Filozofia Nauki 18/2, 151-152

2010

Artykuł został opracowany do udostępnienia w internecie przez Muzeum Historii Polski w ramach prac podejmowanych na rzecz zapewnienia otwartego, powszechnego i trwałego dostępu do polskiego dorobku naukowego i kulturalnego. Artykuł jest umieszczony w kolekcji cyfrowej bazhum.muzhp.pl, gromadzącej zawartość polskich czasopism humanistycznych i społecznych.

Tekst jest udostępniony do wykorzystania w ramach dozwolonego użytku.

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Andrzej Łukasik, Quantum Mechanics and Common Sense

Quantum mechanics implies many paradoxes (e.g. Schrödinger's cat, double-slit experiment, non-locality) which are in contradiction to our ordinary experience. To comprehend quantum theory we must revise our understanding of such matters as the objective nature of reality, the nature of causality, and the nature of a complex system and its relation to its components. Finally, common sense seems to be an epistemological obstacle in our understanding of the quantum picture of the world.

Keywords: quantum mechanics, Schrödinger's cat, double-slit experiment, non-locality, EPR, complementarity, common sense

Michał Tempczyk, The Spectre of the End of Physics

The subject of the paper is the presentation and discussion of Lee Smolin's book *The Trouble with Physics*. Smolin presents in his book the history and the current state of elementary particle physics. He shows that this field of research is now in a very bad situation because no progress has been achieved for last twenty five years. Since the time of Galileo and Newton, fundamental physics has been in the process of permanent progress and the recent lack of success is considered by Smolin as exceptional and dangerous. Superstring theory is, in his opinion, the main cause of this trouble with physics. The theory dominated elementary particle physics in USA, almost completely eliminating other more fruitful approaches to elementary particles and their interactions. Smolin analyses the situation from sociological point of view and he proposes some preventive measures. He is completely concentrated on physics in USA and he neglects the rest of the world.

Keywords: end of physics, superstrings, elementary particles, Lee Smolin

Anna Jedynak, On Biblical Contradictions and Metaphors

The article refers to Helena Eilstein's views: her analysis of biblical contradictions and a limited moral relativism (similar observations made by Leszek Kołakowski are also evoked). It classifies the types of contradictions found in the Bible and suggests how to deal with them. At times the conceptual apparatus created in the philosophy of science is used and a connection to scientific cognition is made, for foundations of philosophy of science can influence the attitude towards biblical contradictions. It emphasizes the role of individual attitudes and the psychological conditionality of taking moral decisions, as well as the importance of shaping moral sensitivity. Metaphors play a double role in the Bible. Firstly, metaphorical interpretations eliminate contradictions. Secondly, metaphors are useful for shaping moral sensitivity.

Keywords: Bible, ethical contradictions, importance, moral decisions, metaphors