
Submitted Summaries

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Tekst jest udostępniony do wykorzystania w ramach dozwolonego użytku.

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Piotr Błaszczyk, On the Mathematical Object

In this paper we show that the field of the real numbers is an intentional object in the sense specified by Roman Ingarden in his *Das literarische Kunstwerk* and *Der Streit um die Existenz der Welt*. An ontological characteristics of a classic example of an intentional object, i.e. a literary character, is developed. There are three principal elements of such an object: the author, the text and the entity in which the literary character forms the content. In the case of the real numbers the triad consists of Richard Dedekind, his work *Steitigkeit und irratinale Zahlen*, and the intentional object determined by this work. Showing that we are indeed faced with the intentional object we analyse three moments: two-sidedness of the formal structure of the intentional object, the moment of its existentional derivation, and schematism of the intentional object. Since there are many constructions of the real numbers known in mathematics, we show what relation obtains between Dedekind's and Cantor's constructions of the real numbers as these are taken as intentional objects. Moreover, we show what relation obtains between Dedekind's construction and the axiomatic characteristics of the real numbers.

Jaroslaw Mrozek, The problem of mathematicality of nature

The aim of this paper is a presentation, specification and criticism of the thesis proclaiming the mathematicality of nature. The author distinguishes between the structural and the functional aspects of this thesis. With such an interpretation this thesis has a strong methaphysical interpretation.

However such thesis is linked with some problems, concerning the issue of its verification. Therefore the author proposes to consider a neutral thesis proclaiming that nature is amathematical. Then we avoid strong assumptions concerning the

structure of the world and better understand not only the successes but also failures of mathematical methods. Besides we gain a new view of the issue of efficacy of mathematical methods in natural sciences.

Katarzyna Kuś, Paradox of an Unexpected Examination

The author presents a uniform formulation of the Paradox of an Unexpected Examination and classifies proposed solutions of the antinomy. The analysis of the solutions and counterarguments found in the literature of the problem allows to point possible further developments and criticism.

Eugeniusz Żabski, On four semantic antinomies and their „solutions”

The Liar, Berry's, Richard's and Grelling's antinomies are presented and analysed in this article. Three non-classical sentential calculi are presented, too. The author also discussed these calculi from the point of view of their application for the solutions of these antinomies.

Wojciech Żelaniec, New Considerations on The “Liar” Paradox

In this article the author argues that the 'Liar' Paradox sentence: “This sentence is false” is neither true nor false because it does not express any proposition or “Satz” in the sense of Bernard Bolzano. The difficulty left open is that by a similar line of reasoning also the sentence “This sentence is true” would not express any proposition, yet it is sometimes taken to be true (on the strength of a theorem by Loewe).

Anna Jedynak, Pragmatic aspects of non-monotonic reasonings

The paper gives a short outline of the problem of non-monotonic reasonings and suggests to consider them in the pragmatic context of the reasoner's beliefs, especially — to interpret them as enthymemes.