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V.M. Reznikov

FREQUENCY INTERPRETATION OF MISES:
PHILOSOPHICAL AND METHODOLOGICAL ANALYSIS

The paper explores various estimates of the material adequacy of Mises' frequency interpretation. Thus, pure mathematicians believe that it is not necessary, since the idea of

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chance is successfully studied in Kolmogorov's theory of complexity. The philosophers de Finetti and Popper also deny the importance of frequency interpretation, believing that its main results can be obtained in other interpretations. The paper shows the uniqueness of frequency interpretation, for example, for the creation of a unified interpretation of the theory of Shafer's probabilities.

It also analyses various estimates of the formal correctness of frequency interpretation. Thus, some pure mathematicians criticize the formal imperfections of Mises' interpretation, while applied mathematicians note its creativity. Our own argument in favor of frequency interpretation is that according to Mises, his theory is not a mathematical science, but a strict natural scientific discipline about mass phenomena. Therefore, the available critical arguments cannot falsify Mises' theory.

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                                                    s₁, s₂,…, sₖ.   -

                    $x_1, x_2,…,x_k,…$

                    $x_{s1}, x_{s2}, x_{sk}, …$
            $s_1, s_2,…, s_k$,

                                                                    ,   -

                        .   -

K_0 S
            A S $a_1, a_2,…, a_k$ -
                    b. K,
        b p_i , $i эA$, p_i -
                                                K_0 [9].   -
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                                            .   -

                        K_0

                            K_1 K_2.

                        , p -
    x y :

                    $p(x,y)=p(x)p(y)$,
$p(x)$ $p(y)$ – x y K_0.

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,   .   2, e-mail: mathphil1976@gmail.com).

Information about the author

Reznikov Vladimir Moiseevich – Candidate of Sciences (Philosophy), Associate Professor, Senior Researcher at the Institute of Philosophy and Law, Siberian Branch of the Russian Academy of Sciences (8, Nikolaev st., Novosibirsk, 630090, Russia); Associate Professor at the Department of Logic and Methodology of Science, Novosibirsk National Research State University (2, Pirogov st., Novosibirsk, 630090, Russia, e-mail: mathphil1976@gmail.com).

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