

THOMAS BEDÜRFTIG, ROMAN MURAWSKI

PHENOMENOLOGICAL IDEAS IN THE PHILOSOPHY OF MATHEMATICS. FROM HUSSERL TO GÖDEL

SUMMARY: The paper is devoted to phenomenological ideas in conceptions of modern philosophy of mathematics. Views of Husserl, Weyl, Becker and Gödel will be discussed and analysed. The aim of the paper is to show the influence of phenomenological ideas on the philosophical conceptions concerning mathematics. We shall start by indicating the attachment of Edmund Husserl to mathematics and by presenting the main points of his philosophy of mathematics. Next, works of two philosophers who attempted to apply Husserl's phenomenological ideas to the philosophy of mathematics, namely Hermann Weyl and Oskar Becker, will be briefly discussed. Lastly, the connections between Husserl's ideas and the philosophy of mathematics of Kurt Gödel will be studied.

KEY WORDS: mathematics, philosophy, phenomenology, intuition.

Thomas Bedürftig
Leibniz Universität Hannover
Institut für Didaktik der Mathematik und Physik
E-mail: th.beduerftig@gmx.de

Roman Murawski
Adam Mickiewicz University
Faculty of Mathematics and Comp. Sci
E-mail: rmur@amu.edu.pl
ORCID: 0000-0002-2392-4869