From the Logical Point of View

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Irving H. ANELLIS, *Van Heijenoort: Logic and Its History in the Work and Writings of Jean van Heijenoort*

Jean van Heijenoort (1912 – 1986) was best known as a historian of logic and for his influential anthology *From Frege to Gödel* collecting many of the research papers that shaped the early history of mathematical logic. His own contributions to mathematical logic, especially to the falsifiability tree method, hitherto generally unknown, are detailed here by his last doctoral student.

Anellis chronicles van Heijenoort's academic life and scholarly career. The central focui are van Heijenoort's contributions to mathematical logic and to the study of its history, using van Heijenoort's publications, classroom lectures, and unpublished notes and manuscripts. Also covered are van Heijenoort's education, his development as a teacher, logician and historian of logic, and his views on philosophy of logic and mathematics.

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in preparation

- Alexei G. Barabashev, *Long Cycles in the Development of Mathematics* (English translation by Gregory D. Crowe)

- Irving H. Anellis, Sergei S. Demidov, Jan Pieter Hogendijk & Boris Kushner (editors), *History of Mathematics Festschrift for Boris Rosenfeld's 77th Birthday*

- Vasilii Ya. Perminov, *The Problem of Justification of Mathematics from the Philosophical Point of View*

- Fred A. Seddon, *Aristotle and Lukasiewicz on the Principle of Contradiction*

- J.D. Wine & Douglas Cameron (editors), *Proceedings of the Fourth Midwest History of Mathematics Conference and the Twentieth Annual Mathematics and Statistics Conference of Miami Universiy*

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Pre-publication comments on some MLP BOOKS in preparation

Alexei G. BARABASHEV's *Long Cycles in the Development of Mathematics* is a much enlarged and revised translation of the author's *Dialektika razvitiya matematicheskogo znaniya*. Gregory Crowe's translation will give readers an appreciation for the acuity and depth of the author's perception, the philosophical profundity of his analyses, and his broad knowledge of the history of mathematics. In the process of developing his thesis, Barabashev has arrived at philosophical insights and conclusions which will contribute significantly to discussions on the philosophy of the history of mathematics. Some of these insights will be absolutely new to philosophers of mathematics, especially those who are unable to avail themselves of the author's writings in Russian. Other of these insights will appear vaguely familiar to readers; but they will discover that this familiarity derives from a close similarity between the conclusions reached by Barabashev and those recently reached independently, but only after Barabashev had already done so, by Western writers in philosophy of mathematics who have only recently begun to approach their subject historically.

Alexei Barabashev received his Ph.D. from Moscow State University in Philosophy of Science in 1979 and his D.Phil. Sci. (higher doctorate) in Philosophy of Science from Moscow State University in 1990. He has been on the faculty of Moscow State University since 1970, and was appointed Full Professor in the Department of Philosophy and Methodology of Science in 1992. He has published numerous articles in Russian, English, and German on the philosophy and methodology of the history of mathematics and mathematical knowledge and has published two important monographs in Russian on *The Future of Mathematics: Methodological Aspects of Prognostication* (1991) and *Dialectial Development of Mathematical Knowledge* (1983), which is the basis of his *Long Cycles in the Development of Mathematics*.

Gregory Crowe received his doctorate in history of science from the Massachusetts Institute of Technology in 1993 with a thesis on Lobachevskii. He worked in close cooperation with the author to produce this translation.

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MLP BOOKS

Pre-publication comments on some MLP BOOKS in preparation

V. Ya. PERMINOV, *The Problem of the Justification of Mathematics from the Philosophical Point of View.*

"This is a very interesting book on the philosophy of mathematics, promoting a down-to-earth view regarding mathematics, which means...to look not only at the well-known results..., but also at mathematics as an age-old successful scientific activity of men. ...The book reads very well and is thought-provoking."

— from comments in *Mathematical Reviews* #88d:03007 on the Russian original.