

Content:

This report contains a *preprint* (paper 1) and a *reprint* (paper 2). The first develops some epistemological views which were hinted in the second, in particular by stressing the need of a greater role of geometric insight and images in foundational studies and in approaches to cognition. The second paper is the "philosophical" part of a lecture in Type Theory, whose technical sections, omitted here, have been largely subsumed by subsequent publications (see references). The part reprinted below discusses more closely some historical remarks recalled in paper 1.

1. Reflections on formalism and reductionism in Logic and Computer Science (pp. 1 - 9)

Invited Lecture at the European Conference of Mathematics, round table in Philosophy of Mathematics, Paris July 1992 (Birkhauser, to appear).

2. Some aspects of impredicativity: notes on Weyl's Philosophy of Mathematics and on today's Type Theory (pp. 10 - 28)

Part I of an Invited Lecture at the Logic Colloquium 87, European Meeting of the ASL, Granada July 1987 (Studies in Logic, Ebbinghaus ed., North-Holland, 1989, pp. 241 - 274) .

Appendix: Review for the Journal of Symbolic Logic of Feferman's paper "Weyl vindicated: Das Kontinuum 70 years later".