

PARADIGM AND COMPLEX THINKING

Summary

This text represents a part of a wider project that concerns the role of prenotional complexes in creating paradigmatic theories, especially in the history of physics. After analyzing certain texts; Aristotle's, Galileo's, Newton's and others, the existence of so called general complexes, which have the role of regulation of the theory, was noticed. General complexes function by the same mechanism as paradigms that Kuhn described in his works. This work has an assignment to show that his concept of paradigm is closely connected to general complex and complex thinking. Also, one deeper analysis of the idea of paradigm itself that Kuhn determines in his works has been done. We have come to the conclusion that he did not understand the essence of paradigm, i. e. general complex, which led to wandering both in defining of the concept and in application of the idea. Kuhn had tried to define paradigm as a general notion or a matrix, which is in fact impossible because of its nature, and as a consequence of that concept of paradigm in his theory appears as a meta-complex. Misunderstanding of the essence of paradigm will imply wrong interpretation of the mechanism of general complex itself which, at the end, leads to wrong conclusions which affect close concepts like revolutionary change of paradigm, incommensurability of theories etc.

Key words: *complex, notional thinking, regulation of notional structures, paradigm, normal science, revolution, incommensurability.*