

UNIFICATION OF BOSCOVICH'S THEORY AND THE SAVICH-KASHANIN THEORY

From the theory of Roger Boscovich (1711 - 1787) to the theory of Pavle Savich (1909 - 1994) and Radivoj Kashanin (1892 - 1989) is a period of two centuries. The first theory is based on the law of continuity and starts from the principles of classical Newtonian mechanics, and the second is based on quantum mechanics. In addition, Boscovich applied his law of forces mainly to the primary elements of matter (non-extending and indivisible points), as well as to particles of the first and second order, while Savich and Kashanin focus on particles "from atoms to celestial bodies". Therefore, it seems that the theoretical approaches and subjects of these two theories are completely different. However, it is not so. In this paper, we point out the historical connection between these two theories, as well as that the Savich-Kashanin theory actually derives from Boscovich's theory.

Key words: Roger Boscovich, Pavle Savich, Radivoj Kashanin, Theory of natural philosophy, Density of solar Planets