

PHILOSOPHY

Olga A. Lescheva, Larisa A. Minasyan

(Don State Technical University. Rostov-on-Don, Russian Federation)

Newton's substantial space-time concept as a methodological basis of classical science

It is considered the influence of Renaissance thinkers on the formation of the Newtonian space-time concept. It is analyzed the prerequisites for acquiring the categorical status of the concept "matter" in the pre-Kantian period, and notes methodological approaches to the separation of the concepts of matter and form. The difference of views of thinkers on the question of the relation of matter and space is researched. The role of the methodological function of mathematics in the formation of ideas about physical space is shown. It is noted that despite the fact that the concepts of scientists of the period under consideration, including I. Newton, were based on Christian theology, the absolutization of the real existence of space and time as independent entities independent of the material world tended to eliminate the metaphysical foundations of the doctrine and give it, ultimately, materialistic completeness as the foundation of classical science.

Key words: space and times, matter, form, thinkers of the Renaissance, Newton.

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