

## CONTRIBUTION OF MARIN GETALDIĆ TO TRANSFORMATION OF MODERN SCIENCE

### Abstract

The paper tries to point out Getaldić's contribution to transformation of modern science by systematic analysis of the work *Promotus Archimedes*. The mentioned work was the subject of multiple analyses in the area of history of physics, but without comprehensive interpretation. That is why the mentioned work was in this paper analyzed at couple of levels and from different viewpoints putting it into general philosophical frameworks and studying its epistemological ranges. It turned out that Getaldić's style of presenting physical sources by geometrical methods was the early indication of geometrical method expansion to different areas of the 17<sup>th</sup> century philosophy. Besides introducing mathematics in describing physical problems, the second important characteristics of the work is also pointed out and that is its experimental foundation enabled by the real measurements. Getaldić's approach in this physical work is characteristic for modern research of natural sciences and the work *Promotus Archimedes* fits into general philosophical tendencies of the period in which it was made.

*Key words:* Marin Getaldić, modern science, natural philosophy, epistemology, geometrical method, experiment, symbolic algebra