

AESTHETICS AS A DRIVING FORCE IN SCIENCE AND TECHNOLOGY: THE CASE OF THE NANOWORLD

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ABSTRACT

Is there any relation between art and science? We know that in both concepts the meaning of the terms is finally the result of interrelations of knowledge that are developed in its own history, so it is mandatory to set some theoretical references, to emphasize the particular relations that produce such influence in science and technology. The meaning of the words: art, poetry, and production, in Plato's and Aristotle's philosophy, its influence in the middle age will be reviewed, along with the Renaissance's concept of beauty: neoplatonic philosophy and the foundations of the relation of men of science and artists. The philosophical foundations of Physics, including the sense of cosmological order: Copernico, Kepler, Newton and Leibniz, will be analyzed under the light of Aesthetics, to lead to the modern concept of nanoworld, which will be analyzed under the light of its aesthetic implications, both as a science as well as a learning experience.