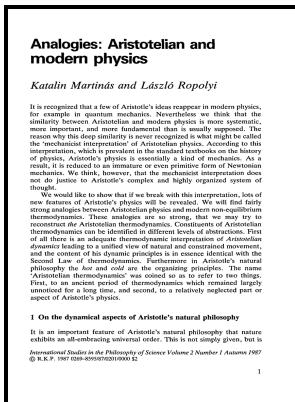


Philosophy, mathematics, and modern physics - a dialogue

Springer-Verlag - Plato



Description: -

- Mathematical physics.

Cosmology.

Physics -- Philosophy.Philosophy, mathematics, and modern physics

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Stoicism

He never completed this degree, but instead studied mathematics, notably with Ostilio Ricci, a mathematics teacher attached to the Tuscan court and the Florentine Accademia del Disegno. And there simply do not seem to be any other theories in the offing. For after all, they will insist, there has to be some reason, some explanation, why the world is as it is and is not some other way.

Plato

Camilleri 2017 calls Bohr the philosopher of experiment.

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In mathematical physics—a discipline he helped create—he calculated the law of free fall, conceived of an inertial principle, determined the parabolic trajectory of projectiles, and advocated the relativity of motion. For Galileo, by contrast, Copernicanism was also a commitment to a physically realizable cosmography. In an intellectualist recidivist mode, this entry will outline his investigations in physics and astronomy and exhibit, in a new way, how these all cohered in a unified inquiry.

Natural philosophy

After leaving university, Galileo worked as a private mathematics tutor around Florence and Siena and cultivated the support of leading mathematicians.

Modern philosophy

What he failed to work out—and this was probably the reason why he never published *De Motu*—was this positive characterization of heaviness. This is possible only if the subject uses causal and spatial-temporal concepts for describing the sensorial content, placing phenomena in causal connection in space and time, since it is the causal space-time description of our perceptions that constitutes the criterion of reality for them. Due to

these principles it is possible within, say, classical mechanics, to define a state of a system at any later time with respect to a state at any earlier time.

Modern philosophy

According to Medley 2003 , this pattern is simply a reflection of the dominant cultural dynamics of the time, affected as they were by the conquests of Alexander.

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