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# Summaries

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Tekst jest udostępniony do wykorzystania w ramach dozwolonego użytku.

## Summaries

Elżbieta Kałuszyńska

### **Some comments on reductionism**

In the article three types of reductionism are discussed: i) ontological reductionism (what happens on the «higher» level is causally determined by what happens on the «lower» level; ii) epistemological (the knowledge about the world can *in principle* be deduced from the physical equations); iii) methodological (explanation in terms of mechanics).

These notions are being analysed from the point of view of the hypothesis, that reality should be viewed as an unstructured potentiality, which are «unfolded» in certain circumstances. Moderate ontological reductionism is the view, that phenomena from a certain level are the realisations of nature's potentiality. Moderate epistemological reductionism is the view, that for (some) phenomena from the «higher» level, models in a more basic theory can be found.

Władysław Krajewski

### **Three concepts of situation in the philosophy of science**

The author analyses three concepts of situation in the philosophy of science: *the problem situation* (due to Karl Popper), *the discovery-generating situation* (due to Elżbieta Pietruska-Madej) and the *solution-yielding situation* (due to Jan Such). His thesis is, that the set of *solution-yielding situations* is a subset of the set of *discovery-generating situations*, which is contained in the set of *problem situations*.

Robert Poczobut

### **Logical and philosophical foundations of the paraconsistent metaphysics of change**

The article provides a critical analysis of G. Priest's logical-philosophical views concerning contradictions holding at nodal points of certain kinds of changes. His position is confronted with the results of K. Ajdukiewicz's studies regarding the

paradoxes of motion. Priest's arguments advocating the existence of contradictions in the realm of real world are here considered not only highly speculative but also based on doubtful theoretical principles (such as *LCC* – Leibniz Continuity Condition).

Marek Szydłowski, Adam Krawiec

**Complex behaviour of nonlinear systems**

In this paper some properties of nonlinear phenomena are discussed. Nonlinearity of the dynamical system may lead to chaotic behaviour of the solutions. Some basic notions of the theory of dynamical systems (such as structural stability, Lapunov exponents, etc.) are explained and the evolution of the understanding of linear phenomena is presented.

Barbara Tuchańska

**The opposition of culture and nature and the problem of historicity of science**

In the article the ideas of Joseph Margolis, concerning the relation between the problem of historicity of science and the distinction of social and natural science are discussed. Margolis rejects the nomological model of the history of science. His radical realism claims, that «historical stories» represent (in the realistic sense) that, what happens in our world. Two notions of «being real» are introduced.

The author discusses some problem, connected with Margolis' model, concluding, that it is founded on the assumption, that scientific knowledge has to be considered as a linguistic (therefore intentional) activity, and considered in a historical context.

Przyłuska-Fiszler

**Methodological and ontological aspects of the discussion on abortion**

In the article the logical structure of the most common arguments concerning abortion is discussed. In particular, the „animation” argument, the „viability” argument and the arguments, which are based on scientific discoveries concerning the development of the embryo are discussed. The author distinguishes two problems:

- when does the live start;
- when does it start to deserve protection and respect from others.

Adam Jonkisz

**The formal theory of value**

In this article a formalization of the notion of „value” is presented. The main inspiration is the approach of T. Czeżowski, which is discussed and modified. Basic notions and facts concerning the formal definition of value are given. A philosophical discussion of this procedure is also given.

Leszek Kołodziejczyk

**Some remarks on the ontological proof**

The article deals with the so-called ontological argument for the existence of God in the version originally presented by Saint Anselm of Canterbury in his *Proslogion*. Some question concerning the interpretation of the argument are pondered over, and an attempt at formalizing the argument is made. It is suggested that at least some passages in the original formulation of the argument may be variantly interpreted. Nevertheless – it is concluded – none of the interpretative variants constitutes a decisive argument for the existence of God.