Restricted to brief peruse for research, reviews, or scholarly analysis, © with required quotation reference: ISBN-13: 978-8797246931

Research Geometric a priori of physics a priori of physics Content What we learned from semiotics:¹ Content First, we take as an example the novel titled by Umberto Eco: Content Critique The Name of the Rose Preface I again exclaim my attitude: on Prologue I. The Time in the Natural Space The beauty of a rose is not a quality of the Rose, th of Pure 1. The Idea of Time it is a quality of the observer interpreting process. 0 **Primary Ouality** 1.1. 1.2. Quantity ρ When you see a rose you interpret, there is a rose. 1.3. The Causal Action priori Mathematical Reasoning You presume that something, a conceptual object, gives you the perception. 1.3.1. Logic and Numbers It is obvious, that there are some geometrical *primary qualities* in Nature that causes you to see a rose. 1.3.1.2. The Number Sequence You see the example object as an icon for the concept category roses, which you then name the Rose. 1.3.2. Time, Action, and Sequence You categorise your experience with this rose by the name Rose, as a symbol of the physical object. 1.3.2.1. Extension of Time Your perception of a rose is a complicated process. When you in that process experience beauty, it is 1.3.3. Quantity in Time that interpretation that emerges as the *quality* of *beauty*. This we categorise as a *secondary quality*. 1.3.3.1. The Passage of Time of 1.3.4. Speed of Times, the Quantum of Time, and the 1.3.4.2. The Frequency in Action **Physics** 1.3.4.3. Associations with the Known Physics I learned from a Danish biochemist Jesper Hoffmeyer who wrote some semiotic philosophical 1.3.5. Continuous Time and Action works e.g. [1], that there is a fundamental principle, short formulated as: 1.3.5.1. Continuous Timing Every living cell has an inside and an outside. **1.4.** The Cyclic Time This principle I extend to every *entity* in Nature including what we call elementary particles and 1.4.1.1. The Period is formulated as: The energy captured internally in any *entity* structure obeys the same *primary* 1.4.1.2. The Circle Plan qualities as all the external structures of the universal Nature. An outstanding question is a black hole an *entity* or just a *primary quality* structure? 1.5. The Complex Numbers 1.5.2. The Complex Exponential Function 1.5.3. The Imaginary Approach to the Cyclic Circle o 1.6. The Complex Oscillation - the Circular Movem Problem of the classical physics: 1.6.2. The Cyclic Circle Clock Edition 1.6.2.2. The Cyclic Rotation Oscillation ens The concepts ideas of mass and force were by Newton presumed as *primary qualities*. 1.6.2.3. The Time Concept as a Running Wheel In the 20th century's quantum mechanics and relativity space-time theory, they seem to be *secondary*. 1.6.2.4. Euler Circle as the A Priori Clock In this book volume, I have tried to avoid or eliminate the effect of these concepts of 1.6.3. The Continuous Measure for the Concept of Ti mass and force and only let them emerge as *secondary qualities*. 1.7. The Cyclic Rotation N rfurt 1.7.1.1. A Entity in Physics and its Quantitative Function Only the geometrical aspects and counting the times in cyclic frequency energy oscillations 1.7.2. The Derivative Function \bigcirc is presumed fundamental *primary qualities* as an a priori of physics. 1.7.3. The Parameter Derived Quantity N 1.7.4. The Circular Rotation and the Unitary Group U 020-1.7.5. The Circular Rotating Oscillator Synchronomet The analytical result of this book seems to be that the *a priori law of physics* is Andres 1.7.5.2. The Real Rotation Kepler's Second Law, now fundamental saying: 1.7.5.3. The Internal Oscillation $\frac{122}{2}$ 1.7.6. The Oscillator Rotation in Physics Any plane angular development is a chronometric constant unit $\hbar = 1$. 1.7.7. Fourier Transformation 1.7.8. The Local Internal Time 1.7.8.2. The Orthogonal Frequencies en I was introduced to semiotics by physicist Peter Voetmann Christiansen by first following a graduate course in Eco-Physics for my 1.7.8.3. The local Homogeneous Parameter and the Cons orientation followed by a course in Response Theory [34] as a part of my major exam in 1981 for graduation from UCPH in 1983. C Jens Erfurt Andresen, M.Sc. Physics, UCPH, Denmark – vi – Research on the a priori of Physics December 2022 C Jens Erfurt Andresen, M.Sc. Physics, Denmark - vii -For quotation reference use: ISBN-13: 978-8797246931 For quotation reference use: ISBN-13: 978-8797246931

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