

Prologue: Outline of the Crisis of Modern Physics

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ABSTRACT

The definition of revelation and the attitude toward it is illustrated. Key contributors toward the crisis of Modern Physics due to the unawareness or attitude on revealed knowledge are pointed out.

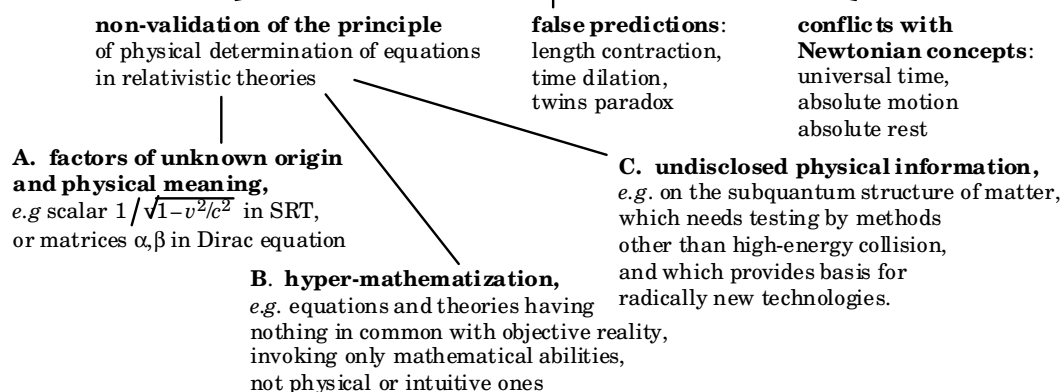
Key Words: Revelation, ignorance, Einstein, Dirac, van der Waerden, modern physics, quantum theory

1. PROLOGUE: OUTLINE OF THE CRISIS OF MODERN PHYSICS

REVELATION: DEFINITIONS OF, AND ATTITUDES TOWARD

- I. Disclosed by God
General attitude:
non-shared
- II. A sudden, creative coming together of several previously uncorrelated lines of reasoning which are combined in a new synthesis (cf. English dictionary)
General attitude:
shared
- free from any suggestion that God has anything to do with the creative insight.

THE NON-VALIDATION OF THE CLASSICAL PRINCIPLE OF THE PHYSICAL DETERMINATION OF EQUATIONS IN EINSTEIN'S SRT



A+B+C LED TO THE CRISIS IN MODERN PHYSICS

Defining features: much high mathematics, little physical information

Development: first perceived: around the 1940's; really started: 1905

Root cause: physicists attitude concerning the role of revelation in 'the act of science'; *i.e.*, the birth of any new idea, or set of coupled ideas, contributing to the advancement of science.

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Key Contributors to the Crisis of Modern Physics

I. A. Einstein: A religious man who believed that **no rationale** can be provided for revealed knowledge,

- was **aware** of the role played by revelation in the act of science,
- was **unaware** of the revealed nature of the mathematical decisions that led him to the Lorentz transformation in 1905.

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the foundation of the standard special relativity theory on his 1905 paper on relativity bar the derivation of the Lorentz transformation in that paper

⇓

unknown origin and physical meaning of $\beta = 1 / \sqrt{1 - v^2 / c^2}$ in the Lorentz transformation

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the **non-validity** of the principle of the physical determination of equations in special relativity theory

II. P.A.M. Dirac

- **obtained** some information about the quantum mechanical behavior of some particles,
- **was unaware** of both the role played by revelation in the act of science and the validity of the principle of the physical determination of equations in the relativistic quantum mechanics

⇓

missed **all** the information on the structure of those particles

III. B.L. van der Waerden

- was **unaware** of both the role played by revelation in the act of science and the validity of the principle of the physical determination of equations in the relativistic quantum mechanics

⇓

- missed **all** the physical content of the spinorial transcription of the Dirac equation

IV. Authors of advanced quantum theories

- All similarly **unaware**, have **ignored** both the role of revelation in the act of science and the principle of the physical determination of equations in founding their theories

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- i) hypermathematized theories ii) little physical information