

# The Metaphysics of Physics

by  
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**Abstract:** Most physicists claim Physics is free of Metaphysics. I question this fundamental assumption and argue this is not so. Ignoring *The Metaphysics of Physics* may be physicists' biggest mistake. The use of models (whether axiomatic or curve fitting) to describe *what is the Universe* is metaphysical in essence. Models have lead physicists to create a 'House of horrors' more phantasmagorical than any Metaphysics in the past [28]. With our minds twisted to believe in the reality of the unreal and the unreality of the real. Though the language and methods may differ, the fundamental assumptions of Physics are metaphysical. And all metaphysical descriptions of the Universe ultimately fail. Collapsing under their own unreality.

To avoid such fate Physics, I argue, should be based only on measurement and mathematical identities (not models) applied to measurement. Whereas a *model* is a *postulated theory of what is*, an *identity* is a *proven theorem* applied to *measurements*<sup>2</sup>. Such mathematical identity, for example, is the Pythagorean Theorem that can be used to describe measurement of lengths under right triangle conditions. I show Planck's formula for blackbody radiation is also such a *mathematical truth* and *not* a Physical Law [2, 10]. Like a *Roseate Stone*, this result has lead to mathematical derivations of Basic Law in broad areas of Physics [2, 8]. Sensible insights open up as to the true meaning of *entropy* and *time* [2, 6]; the meaning and existence of Planck's constant  $h$  [2, 7]; the meaning and nature of the *wavefunction  $\psi$*  [2, 9]. And many other fundamental results. The Second Law of Thermodynamics I show to state "*every physical event takes some positive duration of time to occur*" [2, 6]. And I further prove the inconsistency between the CSI Postulate and the *Photon Hypothesis* [2, 18].

**Biographical:** In my retirement from teaching math I am pursuing lifetime interests. These included my FQXi 2010/11 essay "A World Without Quanta?" [3], the chapter "The Thermodynamics in Planck's Law" in the book **Thermodynamics: Interaction Studies** [2], and some 15 papers in the now defunct Google knols. Shame on you, Google! I have also proposed a natural agency explanation for Stonehenge in "The un-Forging of Stonehenge" [4] and in Brian John's blog *Stonehenge Thoughts* [38] and Robert Langdon's blog *Prehistoric Britain* [37].

**Introduction:** "*Metaphysics is a branch of philosophy concerned with explaining the fundamental nature of being and the world, although the term is not easily defined. Traditionally, metaphysics attempts to answer two basic questions in the broadest possible terms:*

1. "What is there?"
2. "What is it like?" " [36]

I use the term 'metaphysical' in its original meaning in Greek: 'beyond the physical'. What lies beyond the observable Universe. Beyond the empirical data and the calculations based on them. If the 'physical' is manifested in our measurements and calculations, the 'metaphysical' is hidden from our measurements and only believed to be true. These are our *fundamental assumptions*. What make possible our understanding of our physical Universe.

There is a feud going on between physicists and philosophers. With physicists being especially dismissive of philosophers. In a *New York Times* article on June 8, 2012 Jim Holt writes, "*Why do physicists have to be so disdainful toward philosophy?*" And in a 'related opinion', "*Physicists say they do not need any help from philosophers. But sometimes physicists are, whether they realize it or not, actually engaging in philosophy themselves.*" [35]

Bad manners and arrogance is not the problem. But this misbehavior reflects a deeper intellectual attitude which is keeping physicists locked unaware in a *metaphysical box*. Just when they need to think outside the box. Such hostile attitudes by 'keepers of exclusive knowledge' is reminiscent of Scholasticism. And betray intolerance to heretical views. What every religion claiming true and universal knowledge has done in the past. Modern Physics is morphing into Scholastic Metaphysics.

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2 Premises to a theorem are different from the physical claims a model makes of what is the Universe. The application of the Pythagorean Theorem to 'flat right triangles', for example, is different from the claim the 'world is flat'.

# From Physics To Metaphysics

**Mark Steyvers**



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