



#### The Greek Heritage in Physics

The world has inherited many cultural ideas from the old Greeks, including the idea that matter consists of some very small solid pointlike objects.

Hundred years ago experiments contradicted that understanding and, probably out of necessity physicists dropped common sense and replaced it by the mathematics, which proved to work incredibly well.

Now however, it appears that spherical ether waves do the job and also explain why the experiments were misinterpreted; a moving spherical wave generates a plane secondary wave and the high amplitude around the centre gives the 'point-like' characteristics. The spherical wave thereby bridges the two otherwise contradictory models.

Throughout the latest hundred years physics has revealed revolution after revolution, theoretically as well as regarding applications and the mathematics works incredibly well, so it seems unfair to criticize anything. Experiments don't lie, but at the bottom, Quantum Physics and Relativity are pure mystics, so what lay behind?

Particles were considered small solid objects until experiments & Quantum Physical Theory modified that into particle-wave duality.

It appears, however, that one should go one step further, completely replacing the old particle understanding by (roughly) spherical waves of some underlying medium (Aether). With particles being extended wave-objects then, due to extremely high amplitudes around their center area, they preserve their hard-2hard collision characteristics, in addition to the wave-behaviour.

The common understanding among physicists is that there cannot be any underlying non-observable reality, however, the arguments are based on the old particle / particle-wave duality understanding.

Why look for such an underlying model at all?

1. Philosophically not satisfying with mathematics only
2. It may disclose limited validity for existing theories
3. It may disclose new phenomena
4. It may explain unexplained phenomena

The approach here: wipe the blackboard, and neglect for a moment knowledge about observations and theories, and construct instead a model from an assumed underlying non-observable world, where the straight line is straight, and time runs steadily forward, and particles are spherical waves of some sort of Aether.

While far from complete, it explains Special Relativity, Gravity / General Relativity, Dark Energy, the nature of an electrical charge and Electromagnetism. A nuclear model is provided in rough terms; structure of nucleons, nuclear bindings, decay of a neutron, and birth of an electron. Quantum Physics is only covered in general terms.

A few new predictions are included as well.



BEHIND FUNDAMENTAL PHYSICS

Holger Kubel

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Holger Kubel  
Born 1945  
Engineer (E) from the Danish  
Technical University (DTU) 1972

Since high school I have insisted on some kind of underlying explanation of the mystics we observe in Special Relativity.  
As my knowledge increased so did the amount of mystics.  
Now, regarding the mystics I'm less frustrated.

# BEHIND FUNDAMENTAL PHYSICS

## An Ether Wave Model of the Physical World