

## *The Flawed Lorentz Transformation*

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In this essay, we propose that the Lorentz Transformation is an anachronism that is similar to “Philogiston.” Philogiston served its purpose in its own unique paradigm, but that paradigm shifted & Philogiston became obsolete as a result. Likewise, the paradigm that produced the Lorentz Transformation has shifted also. As a result, the Lorentz Transformation is an obsolete “FISH OUT OF WATER.”

In the 19<sup>th</sup> Century, the two separate paradigms of scientific understanding of LIGHT & of ELECTRICITY converged & fused together into one separate paradigm...but only for a few decades.

There was no differentiation between LIGHT & ELECTRICITY while these two separate physical phenomena were modeled as one single phenomenon. During this time of confusion, the Lorentz Transformation was proposed & accepted by the leading Theoretical Scientists in Europe & America.

ELECTRICITY was modeled as an electrical charge both stationary & moving. ELECTROSTATICS studied the stationary electrical charge & ELECTRODYNAMICS studied the moving electrical charge. The moving electrical charge required a medium – a conductor. The conductor was either solid metal or ionized molecules of a conducting gas, such as Mercury Vapor. In either case, the moving electrical charge induced yet another physical phenomenon – The FIELD-OF-FORCE. This FIELD-OF-FORCE was considered to be identical to the moving electrical charge which induced it in terms of modeling.

Elsewhere in the study of natural phenomena, the study of LIGHT became modeled as a type of electrical FIELD-OF-FORCE. Thusly, LIGHT shared the same modeling paradigm as the electrical charge. LIGHT became to be studied under the paradigm of ELECTRODYNAMICS. This is the basic foundation of the Lorentz Transformation. But then shortly afterwards, the paradigms shifted as these physical phenomena achieved differentiation & developed into separate paradigms. However, the Lorentz Transformation was allowed to remain as a viable idea.

The moving electrical charge & its induced FIELD-OF-FORCE “parted company.” The moving electrical charge (a.k.a. ELECTRODYNAMICS) became ELECTRICAL CURRENT & ELECTRICAL POWER. The FIELD-OF-FORCE became ELECTROMAGNETIC RADIATION. Also, LIGHT became bandwidth within this ELECTROMAGNETIC RADIATION spectrum.

The ELECTRO MAGNETIC RADIATION spectrum exhibits the Doppler Effect, the Fizeau Effect & the Sagnac Effect. It must be noted & remembered that the leading Physical Scientists of Europe led the majority consensus of the scientific community & “disproved” the existence of the Doppler Effect in the latter 19<sup>th</sup> century by publishing papers in the reputable journals.

While ELECTROMAGNETIC RADIATION exhibits the Doppler Effect, ELECTRODYNAMICS exhibits the LaPlace Transform. Here, the seeds of confusion were planted. The LaPlace Transform represented a window of opportunity to the three Theoretical Scientists of Europe – Joseph Larmor, Hendrik Lorentz & Henri Poincare. They proposed a similar “transform” to the physical phenomenon known as “LIGHT.” Their proposed “transform” is known as the Lorentz Transformation. But, this proposal was presented when LIGHT & ELECTRICITY shared the same modeling paradigm. Hence, the Lorentz Transformation is tragically flawed.

This confusion is better understood by brief survey of the technological advances of the 19<sup>th</sup> century. Both LIGHT & ELECTRICITY advanced in totally separate modeling paradigms.

Improvements in lens manufacturing improved telescopes & microscopes. As a result, more distant planets were discovered in outer space & chromosomes were discovered to divide in the nucleus of a living organic cell. A propagating signal of LIGHT underwent “polarization.” The prism which transformed Light into a color spectrum was utilized toward the invention of the “SPECTROMETER.” The Spectrometer became known under other nomenclature as well : the Spectrograph, the Optical Spectrometer & the SPECTROPHOTOMETER.

The reading of a SPECTROMETER consisted of both the color spectrum and the embedded black lines. These embedded black lines are modeled as “absorption lines” & have been given the nomenclature – Kirchoff Lines.

A SPECTROMETER was combined with the telescope of Astronomy to yield a “spectroscope.” The spectroscope was directed toward the sun & it yielded surprising empirical data. Analyzed sunlight exhibited both Kirchoff Lines and differing color spectrums. The differing color spectrums exhibited a “SHIFT” & this became known as the Doppler Shift.

Next, the spectroscope was directed at the planets. The same Doppler Shift was observed. The sun’s surface is assumed to be pulsating & the planets assumed to be rotating as the Doppler Shift strongly infers.

This essay has already noted the Doppler Shift in ELECTROMAGNETIC RADIATION. Curiously, while Astronomy was using the Doppler Shift as a scientific tool of the 19<sup>th</sup> century, the Physical Scientists “disproved” the very existence of the Doppler Shift. The Physical Scientists were pre-disposed to compound their error as they did in the Lorentz Transformation.

It was not Astronomy which led the Physical Scientists astray, obviously. What led them astray were “artificial” illumination & the invention of the ELECTROMAGNETIC TELEGRAPH. “Invisible” LIGHT has been discovered to extend beyond the visible spectrum on both the “low” and the “high” end. Light was studied as certain crystals exhibited physical properties, such as “FLUORESCENCE” and “LUMINESENCE.” Then, it was discovered that certain crystals & substances were illuminated by invisible LIGHT on the higher end. Thus, “artificial” illumination was developed.

Furthermore, Nikola Tesla succeeded in illuminating a globe with a coating of a fluorescent material, possibly phosphor, by a transmitted radiation from a remote source & wrongly assumed that he had transmitted “POWER.” Much more common were the Mercury Vapor Lamps. To the 19<sup>th</sup> century observer, LIGHT, the FIELD-OF-FORCE & the ELECTRODYNAMICS were one in the same.

Further complicating & confusing the 19<sup>th</sup> century observer was the ELECTROMAGNETIC TELEGRAPH. ELECTRODYNAMICS & the FIELD-OF-FORCE were married in Holy Matrimony in the ELECTROMAGNETIC TELEGRAPH.

A pulse of ELECTRODYNAMICS induced a FIELD-OF-FORCE, which energized a relay switch, which transmitted a separate ELECTRODYNAMICS through a solid metal, which induced separate FIELD-OF-FORCE, which interfered with destructively with the secondary pulse of ELECTRODYNAMICS. Into the fray waded the genius of Oliver Heaviside. As if to announce the presence of the scientific community, the first thing that Heaviside did was simplify Maxwell’s Field Equations into their contemporary format. Then Heaviside wrote the dictionary of AC ELECTRICITY because the Electromagnetic Telegraph transmitted a “dirty” sine wave of electricity. Finally, Heaviside invented the Telegraph Equations. These new Telegraph Equations were recognized as a new form of mathematics that acquired the name “OPERATIONAL CALCULUS.”

The Telegraph Equations/OPERATIONAL CALCULUS caught the attention of the leading Theoretical Mathematicians of Europe. Heaviside had replicated the LaPlace Transform, unknowingly.

This was the window of opportunity that comes once in a lifetime – if it comes at all – into the life of the Theoretical Mathematician. A “transform” was theorized for LIGHT.

In summation, the Lorentz Transformation assumes that LIGHT propagates as a moving electrical charge (ELECTRODYNAMICS). Einstein’s famous paper in 1905 is titled “ELECTRODYNAMICS OF MOVING BODIES”, yet today it is known as the SPECIAL RELATIVITY THEORY OF LIGHT.

Einstein’s RELATIVITY THEORY is rooted & grounded in the Lorentz Transformation.

Larmor, Lorentz & Poincare were in SERIOUS ERROR!!!

The Lorentz Transformation is tragically flawed.

