
Recently Discovered Michelson's Error in The Analysis of His 1881/87 Experiment is a Virus in Physics That Needs to be Removed

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Abstract. The Paper's main purpose is to justify a correction of the double errors/viruses in physics, introduced by Michelson's analysis of his 1881/87 interferometry experiments, with wrong isosceles triangle path for ray 2'-2'' (or for swimmer SW2), and wrong $t_2 < t_1$ for times; Such an action, must start with the corrections of high school and college physics textbooks, in regard to the example of the contest between two swimmers, by implementing the correct right triangle for SW2 path, for which one obtains the correct result $t_2 = t_1$, showing that contest ends in a tie; This result is applicable to Michelson's analysis where no fringe movement was to occur, but is also applicable to all similar experiments, based by splitting at 90° a continuous movement, followed by their two parts reunion. This result is valid, indifferent of the movement's agent: light, laser, radio waves, X-rays, γ -rays, particles bunch, sound, gravitation, etc., and of the supporting medium type (ether, water, air, etc.). But Michelson's misinterpretation of his experiment, was the basis for the development of the Special Theory of Relativity (SRT). So it turns out that SRT no longer has its justifying basis, and based on SRT, the Ether (ETH) has been removed from physics and nature. Thus, the elimination of the Ether no longer has a correct basis, so the Ether can be considered to exist, until other correct experiments prove its non-existence. But the presence of Ether, hypothetical, does not prevent the correct understanding of the phenomena in nature and in Physics, nor its development, but on the contrary can better justify it, as below. For on the basis of the existence of the Ether, the following consequences appear, and a New Physics can be developed. It was initially necessary to develop for Ether, our initial model HM16. And by detailing and recently developing HM16, we were able to develop a theory of any interactions/forces in nature, based exclusively on periodic mechanical percussion forces p , acting on the constituent cells EC of the Ether, ECs that constitute the current quantum level of interaction. And the percussion forces p , are created by submicroparticles (SMP) and are transmitted by the fundamental longitudinal vibrations FVL, and transverse FVT, of Ether, which are actually constituted by the periodic longitudinal deformations ε , and respectively by the periodic transverse deformations γ , of the whole ECs of ether. And the normal periodic percussion forces p_n , due to the longitudinal deformations ε , create the actual electric field E , and electric forces F , but being described by a Law, of Coulomb type completed with a term in $\ln r$. And the interaction force between two electric dipoles, through p_n percussions, is a force of attraction between dipoles, which is the actual gravitational force of attraction, which varies over long distances by $1/r^2$, as the Newtonian force. And the transverse deformations of the ether γ , non-zero, created by SMPs, through their vibrations and permanent rotations, being accompanied by the tangential percussion forces p_t , afferent, create the current actions of type forces F , moments M , and magnetic field, H . And SMP vibrations with percussion forces p , as well as the fundamental vibrations FVs of the ether, occur at EC or quantum level, and persist permanently over time, without energy consumption, and without transmitting energy remotely, if the SMP state is stationary. And the energy transport takes place in nature, exclusively through a SMP of special type, photon PH, which stores its own energy $h\nu$, which it transports through the ether with speed c , without entraining the ether in its movement. The displacement of PH consists of an advance of its own vortices/vibrations, over the ether encountered in its trajectory, which remains the same behind.