Abstract Submitted
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**How to slow down light and where relativity theory fails**[1] MEGGIE ZHANG, AISRO — Research found logical errors in mathematics and in physics. After discovered wave-particle duality made an assumption I reinterpreted quantum mechanic and I was able to find new information from existing publications and concluded that photon is not a fundamental particle which has a structure. These work has been presented at several APS meetings and EuNPC2012. During my research I also arrived at the exact same conclusion using Newton's theory of space-time, then found the assumptions that relativity theory made failed logical test and violated basic mathematical logic. And Minkowski space violated Newton's law of motion, Lorenz 4-dimensional transformation was mathematically incomplete. After modifying existing physics theories I designed an experiment to demonstrate where light can be slow down or stop for structural study. Such method were also turn into a continuous room temperature fusion method. However the discoveries involves large amount of complex logical analysis. Physicists are generally not philosophers, therefore to make the discovery fully understood by most physicists is very challenging.

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