

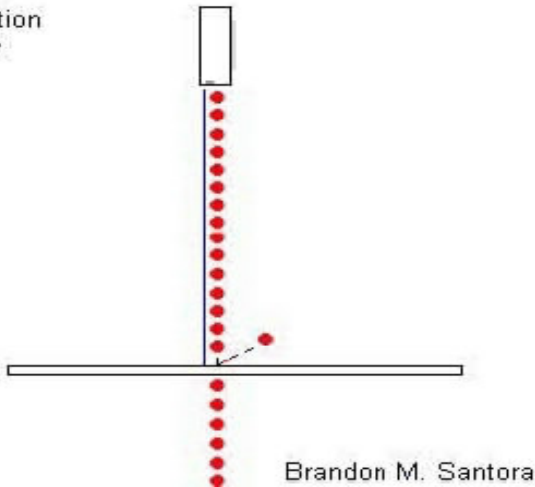
Wave Interception and Partial Reflection Phenomena of Electromagnetic Radiation

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The effect of partial reflection has been said to be a deep mystery thus far. (*Feynman*) Here is illustrated a pattern, which suggests the presence of the alternate wave aspect of light in operation during the emission of light quanta to periodically intercept photons at the point of contact with the reflective surface. This is only a hypothetical idea yet it does match the known percentages of reflection for photons on reflective surfaces and only seems to account for the top surface of the matter. While quanta are being released from captivity with matter, in this case a tungsten filament of a bulb, an electrodynamic wave, which also originates from the inner atom pulses from the light source (filament) in increments onto a piece of matter. In this case we were observing this to be a sheet of glass. While the photons move toward the glass the pulsing wave will incidentally intercept with one photon and the glass thereby causing that particular photon to become reflectable. After which, it will reach a photomultiplier which is used to detect individual light quanta positioned above the glass. Here are 2 examples of this effect. One, wave aspect pulses and the other reverberates. I personally lean more toward to pulsing example but the reverberative might have some credit as well. Below is an illustration showing a still diagram of the reverberative view. Click above links for animated examples.

Pulsing example (click)

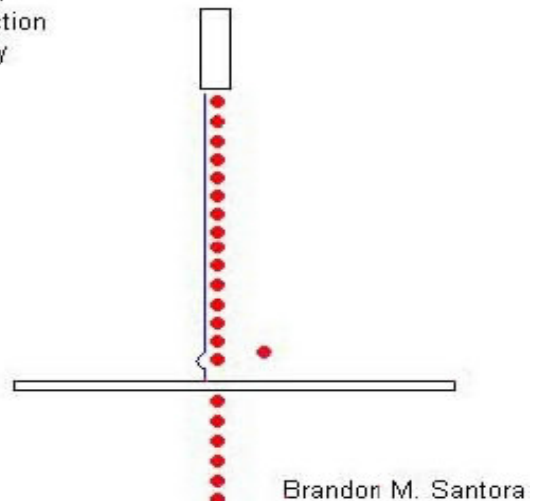
Partial
Reflection
Theory



still example:

Reverberating example (click)

Partial
Reflection
Theory



Partial Reflection Reverberative View example

