

Re: Cherenkov Radiation false if light is the smallest mass (quanta)??

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Tom Roberts wrote:

[...]

Except, of course, experiments observe Cherenkov radiation all the time, with properties quite accurately described by the theory.

I think they're recording the rate at which the radiation reaches their image/pattern recorders. In that case then I guess a billiard effect is not taking place (since it's not a distance travelled measurement...?)?

<http://www.cern.ch/RD11/rkb/PH14pp/node26.html>

Quote:

"The major problem of Cherenkov radiation is the modest light output: the energy loss due to ionization or excitation is two to three orders of magnitude higher than the energy lost in radiating Cherenkov light, in the energy range where photomultipliers can be used (a few eV, or about 400 nm wavelength). By its directionality, Cherenkov light can, however, be separated from the background. The useful photon yield is obtained by integrating over the range of sensitive wavelengths: "

I read it standing upside down and still nothing...I can't figure if they're recording the rate (if the rate then I was incorrect) or distance travelled by the Cherenkov radiated light...Not wishing to give Tom a heart attack but ionization, excitation may produce the billiard effect I was talking about or not..??

Your word-salad ramblings are useless. You need to LEARN about physics, and not try to discuss what you so obviously do not understand.

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