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We get $E^2 + pc^2 - mc^2 = 2h\nu$ from which it

follows that $2pc^2 + m^2c^4 = (2h\nu - pc^2 + mc^2)^2$

so that $pc = 4h^2\nu^2 + 4h\nu mc^2$

$4h\nu + 2mc^2$ The energy loss for the

photon is the kinetic energy of the

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