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Stephen Gasiorowicz Quantum Physics Solution Stephen Gasiorowicz Quantum Physics Solution [2 that is  $h\nu = h\nu' + pc$  We get  $E + pc - mc^2 = 2h\nu$  from which it follows that  $2p c^2 + m c^4 = (2h\nu - pc + mc^2)$  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 proton  $K = E - mc^2$  Now  $h\nu = 100$  MeV and  $mc^2 = 938$  MeV, so that  $pc = 182$  MeV and  $2E - mc^2 = 17.6$  MeV. Let  $h\nu$  be the incident photon energy,  $h\nu'$  the final photon energy and  $p$  the outgoing

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