

de Broglie Practice Problems

Physics II: Modern Physics

College of the Atlantic

1. Compute the de Broglie wavelength of the following:
 - (a) A 280 gram hockey puck moving at 40 m/s.
 - (b) A proton with a kinetic energy of 3 MeV.
 - (c) An electron with a kinetic energy of 5 eV.

2. What is the wavelength of a 3 MeV photon?