(10.7) What proof exists that the photon has matter properties?

- 1. Radiation pressure.
- 2. Recoil in photon and  $\gamma$ -emission.
- 3. Energy increase and decrease when falling into or moving out against a gravity field. Demonstrated by using the Mössbauer effect in a high tower with the energy of radiation from a source the top or the bottom of the tower detected at the opposite end.