

# Scattering of Photons

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# Chapter 1

## Scattering of Photons

### 1.1 Scattering of Photons

In the scattering of photons, for example from an atom, an initial state photon with wave-number  $\vec{k}$  and polarization  $\hat{\epsilon}$  is absorbed by the atom and a final state photon with wave-number  $\vec{k}'$  and polarization  $\hat{\epsilon}'$  is emitted.