

CHAPTER OVERVIEW

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In a scattering experiment, a beam of particles interacts with a sample and the beam particles scatter off the sample particles. A momentum $\hbar\mathbf{q}$ and energy $\hbar\omega$ are transferred to the beam particle during such a collision. If $\omega = 0$, the scattering is said to be elastic. For $\omega \neq 0$, the scattering is inelastic.

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