

Introduction to Scattering Theory

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Course objectives

To give students understanding of the theory of weak scattering, based on a pictoral representation of the mathematics: including scattering from crystals (inc. finite crystals and powder scattering); randomly placed particles; structure factor and form factor; dynamic light scattering.

Course description

This module will present a pictoral representation of the theory of weak scattering, and demonstrate how it can be used to understand scattering patterns in many common situations: crystals (inc. finite crystals and powder scattering); randomly placed particles; structure factor and form factor; dynamic light scattering.