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How the Standard Model Got Started

Standard Model Lagrangian

Particles of the Standard Model

The Standard Model Lagrangian

The Photon Field

Coupling Constants

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The DANCE particle + how physicists work with quasiparticles

How we deal with light - waves and particles (photons)

Sound waves: oscillations in air (+ other gases liquids and solids)

Sound wave in a solid: atomic structure and bonds transmit energy

Treating sound waves as particles (phonons) - quasiparticles

Why phonons are useful (multiple sound waves and phonon-phonon interactions)

Electron hole quasiparticles (vacancy vs electron motion)

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Chapter 1

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Concept Map

2d Material

Point Defect

Point Defects

The Arrhenius Equation

General Arrhenius Equation

Activation Energy

Boltzmann Constant

Vacancy Formation Energy

Vacancy Generation and Annihilation

Vacancy Formation

Vacancy Formation Energy in Aluminum

Point Defects in Ionic Solids

Frankel Defect

Self-Interstitial

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Reduction 1 ...
Introduction
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Reduction 2 - Preservation of Energy
Reduction 3 - Planes of Symmetry
Orthotropic Materials
Transversely Isotropic Materials
Isotropic Materials
Plane Stress Condition
Plane Strain Condition
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