

CHAPTER OVERVIEW

8: Symmetries of the theory of strong interactions

The first time people realized the key role of symmetries was in the plethora of particles discovered using the first accelerators. Many of those were composite particle (to be explained later) bound by the strong interaction.

[8.1: The First Symmetry - Isospin](#)

[8.2: Strange Particles](#)

[8.3: The quark model of strong interactions](#)

[8.4: SU\(4\), SU\(5\), and SU\(6\) flavor symmetries](#)

[8.5: Color Symmetry](#)

[8.6: The Feynman Diagrams of Quantum Chromodynamics \(QCD\)](#)

[8.7: Jets and QCD](#)

Thumbnail: Chromodynamic fields due to color charges, these are the neutral/"colorless" combinations. (Public Domain; Maschen).

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