

Elementary Particles

An elementary particle does not consist of smaller subparticles.

		three generations of matter (fermions)			interactions / force carriers (bosons)	
		I	II	III		
Quarks <ul style="list-style-type: none"> • half-integer spin • all 4 interactions 	mass	$\approx 2.2 \text{ MeV}/c^2$	$\approx 1.28 \text{ GeV}/c^2$	$\approx 173.1 \text{ GeV}/c^2$	0	$\approx 125.11 \text{ GeV}/c^2$
	charge	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{3}$	0	0
	spin	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	0
		u up	c charm	t top	g gluon	H higgs
Fermions ↑ Quarks ↓	mass	$\approx 4.7 \text{ MeV}/c^2$	$\approx 96 \text{ MeV}/c^2$	$\approx 4.18 \text{ GeV}/c^2$	0	0
	charge	$-\frac{1}{3}$	$-\frac{1}{3}$	$-\frac{1}{3}$	0	0
	spin	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	1
		d down	s strange	b bottom	γ photon	
Leptons <ul style="list-style-type: none"> • half-integer spin • no strong interactions 	mass	$\approx 0.511 \text{ MeV}/c^2$	$\approx 205.66 \text{ MeV}/c^2$	$\approx 1.7768 \text{ GeV}/c^2$	0	$\approx 91.19 \text{ GeV}/c^2$
	charge	-1	-1	-1	0	1
	spin	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	1
		e electron	μ muon	τ tau	Z Z boson	
		ν_e electron neutrino	ν_μ muon neutrino	ν_τ tau neutrino	W W boson	

Bosons

- integer spin
- all 4 interactions

GAUGE BOSONS
VECTOR BOSONS

SCALAR BOSONS

Elementary Particles

K Morrison



Elementary Particles:

The book delves into Elementary Particles. Elementary Particles is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Elementary Particles, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Elementary Particles
 - Chapter 2: Essential Elements of Elementary Particles
 - Chapter 3: Elementary Particles in Everyday Life
 - Chapter 4: Elementary Particles in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Elementary Particles. This chapter will explore what Elementary Particles is, why Elementary Particles is vital, and how to effectively learn about Elementary Particles.
3. In chapter 2, the author will delve into the foundational concepts of Elementary Particles. The second chapter will elucidate the essential principles that must be understood to grasp Elementary Particles in its entirety.
4. In chapter 3, this book will examine the practical applications of Elementary Particles in daily life. This chapter will showcase real-world examples of how Elementary Particles can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Elementary Particles in specific contexts. This chapter will explore how Elementary Particles is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Elementary Particles. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Elementary Particles.

https://cheaperseeker.com/data/detail/default.aspx/the_taming_of_the_shrew_no_fear_shakespeare.pdf

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Elementary Particles Introduction

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