

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

Non Compact Groups In Particle Physics

LP Steffe



Non Compact Groups In Particle Physics:

Non Compact Groups In Particle Physics Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Non Compact Groups In Particle Physics**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Non Compact Groups In Particle Physics

1. Understanding the eBook Non Compact Groups In Particle Physics
 - The Rise of Digital Reading Non Compact Groups In Particle Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Non Compact Groups In Particle Physics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Non Compact Groups In Particle Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Non Compact Groups In Particle Physics
 - Personalized Recommendations
 - Non Compact Groups In Particle Physics User Reviews and Ratings
 - Non Compact Groups In Particle Physics and Bestseller Lists

5. Accessing Non Compact Groups In Particle Physics Free and Paid eBooks
 - Non Compact Groups In Particle Physics Public Domain eBooks
 - Non Compact Groups In Particle Physics eBook Subscription Services
 - Non Compact Groups In Particle Physics Budget-Friendly Options
6. Navigating Non Compact Groups In Particle Physics eBook Formats
 - ePub, PDF, MOBI, and More
 - Non Compact Groups In Particle Physics Compatibility with Devices
 - Non Compact Groups In Particle Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Non Compact Groups In Particle Physics
 - Highlighting and Note-Taking Non Compact Groups In Particle Physics
 - Interactive Elements Non Compact Groups In Particle Physics
8. Staying Engaged with Non Compact Groups In Particle Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Non Compact Groups In Particle Physics
9. Balancing eBooks and Physical Books Non Compact Groups In Particle Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Non Compact Groups In Particle Physics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Non Compact Groups In Particle Physics
 - Setting Reading Goals Non Compact Groups In Particle Physics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Non Compact Groups In Particle Physics
 - Fact-Checking eBook Content of Non Compact Groups In Particle Physics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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