

**Essential ideas in the microscopic world: energy is quantized**

**Subatomic world**

- Describe energy and atomic energy levels
- Describe Bohr's atomic model

**Fundamental forces and their properties**

**Applications and skills**

- Describing the emission and absorption spectrum of hydrogen gas
- Solving problems involving atomic spectra, including calculating the energy of photons emitted during atomic transitions
- Comparing decay equations for alpha and beta decay

- Calculating alpha decay
- Half-life
- Radioactive half-life

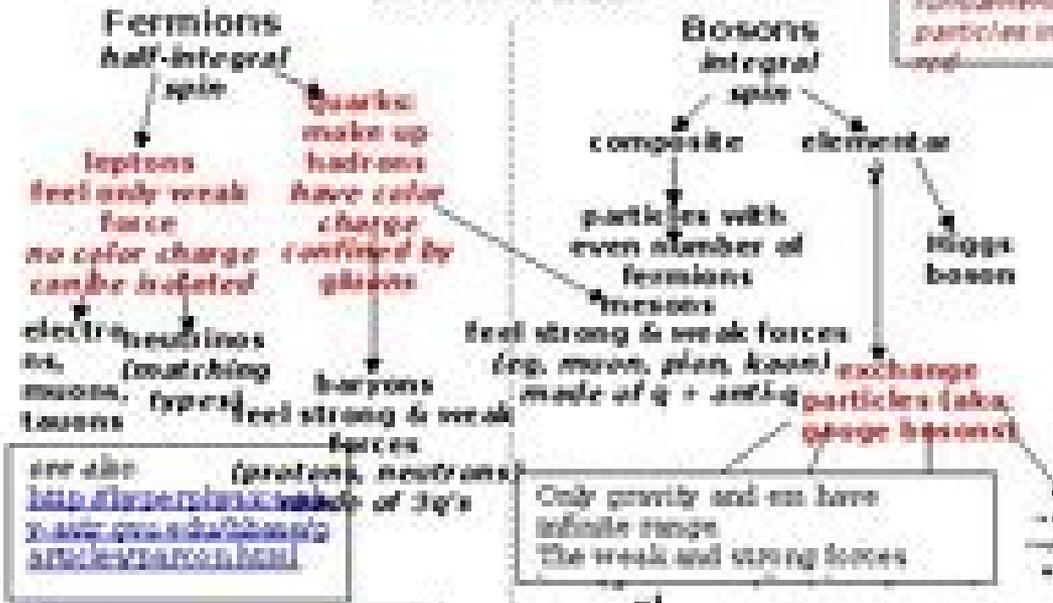
- Alpha particles, beta particles and gamma rays
- Identifying characteristics of decay particles

**Exercises**

- Exercise is required to solve subatomic decay problems with half-integral number of half-lives
- Exercise expected to include nuclear and subatomic in 30s decay systems

Date Rec'd: 1st semester  
 2017-18

**PARTICLES**



**Matter is made of fermions:**  
 electrons, neutrons, and  
 Antimatter (q-made of anti-particles with opposite charge:  
 electrical  
 charge color  
 charge flavor  
 charge and opposite lepton/aryon number.

**Interacting Particles**

	u	c	t	$\gamma$
Quarks	d	s	b	g
	$\nu_u$	$\nu_d$	$\nu_e$	Z
Leptons	e	$\mu$	$\tau$	$W^\pm$

	u	c	t	g	H
Quarks	d	s	b	$\gamma$	$\phi$
	$\nu_u$	$\nu_d$	$\nu_e$	Z	$\nu_\tau$
Leptons	e	$\mu$	$\tau$	$W^\pm$	$\nu_\tau$

These are subatomic particles  
 that are involved in the  
 formation of matter

# Relations Of Particles Lecture Notes In Physics

**N Noddings**



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## **Table of Contents Relations Of Particles Lecture Notes In Physics**

1. Understanding the eBook Relations Of Particles Lecture Notes In Physics
  - The Rise of Digital Reading Relations Of Particles Lecture Notes In Physics
  - Advantages of eBooks Over Traditional Books
2. Identifying Relations Of Particles Lecture Notes In 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 an Relations Of Particles Lecture Notes In Physics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Relations Of Particles Lecture Notes In Physics
  - Personalized Recommendations
  - Relations Of Particles Lecture Notes In Physics User Reviews and Ratings
  - Relations Of Particles Lecture Notes In Physics and Bestseller Lists
5. Accessing Relations Of Particles Lecture Notes In Physics Free and Paid eBooks
  - Relations Of Particles Lecture Notes In Physics Public Domain eBooks
  - Relations Of Particles Lecture Notes In Physics eBook Subscription Services
  - Relations Of Particles Lecture Notes In Physics Budget-Friendly Options
6. Navigating Relations Of Particles Lecture Notes In Physics eBook Formats

- ePub, PDF, MOBI, and More
  - Relations Of Particles Lecture Notes In Physics Compatibility with Devices
  - Relations Of Particles Lecture Notes In Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Relations Of Particles Lecture Notes In Physics
    - Highlighting and Note-Taking Relations Of Particles Lecture Notes In Physics
    - Interactive Elements Relations Of Particles Lecture Notes In Physics
  8. Staying Engaged with Relations Of Particles Lecture Notes In Physics
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Relations Of Particles Lecture Notes In Physics
  9. Balancing eBooks and Physical Books Relations Of Particles Lecture Notes In Physics
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Relations Of Particles Lecture Notes In Physics
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Relations Of Particles Lecture Notes In Physics
    - Setting Reading Goals Relations Of Particles Lecture Notes In Physics
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Relations Of Particles Lecture Notes In Physics
    - Fact-Checking eBook Content of Relations Of Particles Lecture Notes In 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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