

Essential ideas in the microscopic world: energy is discrete

Subatomic physics

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

Fundamental forces and their properties

Applications and skills

- Describing the emission and absorption spectrum of various gases
- Solving problems involving atomic spectra, including the relative wavelengths of photons emitted during atomic transitions
- Using half-life equations for alpha and beta decay
- Calculating the half-life of a particle from a decay curve
- Investigating half-life experimentally for a substance

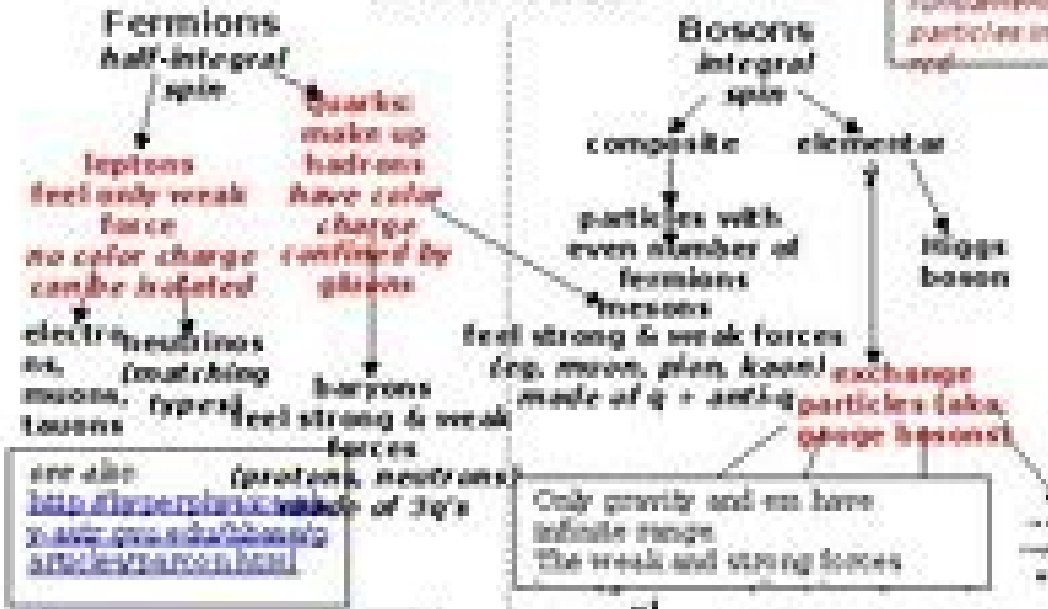
- Radioactive decay
- Half-life
- Alpha particles
- Beta particles
- Gamma rays
- Absorption characteristics of decay particles

Quanta

- Energy is quantized in atomic radiative decay processes with only integral multiples of half-lives
- Structure supported in radiative systems and continuous in free decay systems

Date Recd: 1st/11/2020
 2/1/21 3/1/21

PARTICLES



fundamental particles in esp.

Standard Model

	quarks			leptons		
bosons	u	c	t	γ	Z^0	W^\pm
	d	s	b	g	Z^0	W^\pm
	ν_u	ν_d	ν_e	Z^0	Z^0	W^\pm
	ν_c	ν_s	ν_τ	Z^0	Z^0	W^\pm
fermions						

	up	charm	top	photon	Higgs boson
quarks	down	strange	bottom	gluon	
	electron neutrino	muon neutrino	tau neutrino	Z boson	
leptons	electron	muon	tau	W boson	

note: the W bosons are charged and mediate weak force

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.

Relations Of Particles Lecture Notes In Physics

K Morrison



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