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Chapter 12

**Chapter 12**

**Nuclear**

**Physics**

**Radiation**

**Subatomic**

**Particles And**

**Radiation**

~~Alpha Particles, Beta  
Particles, Gamma Rays,~~

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~~Positrons, Electrons,  
Protons, and Neutrons~~  
RadioActivity 03 :  
ALPHA BETA

~~GAMMA Emission~~  
PROPERTIES :  
Class X , XII

BIOLOGICAL  
EFFECTS OF  
RADIATION FSC  
Physics Part 2, Chapter  
21, Nuclear Physics  
Nuclear Physics: Crash  
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~~Introduction |~~

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~~|| SUBATOMIC~~ Physics

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~~HADRONS | QUARKS~~

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**Rutherford Gold Foil**

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Nuclear Reactor -

Understanding how it  
works | Physics Elearnin

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How Small Is An  
Atom? Spoiler: Very  
Small. Subatomic  
Particles Explained In  
Under 4 Minutes What  
Makes Something  
Radioactive? How  
Nuclear Power Plants

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Work / Nuclear Energy  
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Nuclear Radiation* **How  
Quarks Fixed the Mess  
That Was Particle  
Physics** *Stable and  
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Stability and Predicting  
the Type of Decay* ~~20  
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Part 2 Chapter 19 Dawn

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Transformation *Chapter*  
*12 Nuclear Physics*  
*Subatomic*

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Physics, Subatomic  
Particles and Radiation  
Radiation Radiation  
consists of subatomic  
particles traveling with



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enough energy so they are not bound to atoms, molecules, crystals or any substances. These particles can include nuclei or photons.

Electromagnetic radiation consists of photons.

*Chapter 12 Nuclear  
Physics, Subatomic  
Particles and Radiation*

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*Page 9/33*

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## Physics Subatomic

### Chapter 12 Nuclear Physics, Subatomic Particles And Radiation

#### Radiation Radiation

consists of subatomic particles traveling with enough energy so they are not bound to atoms, molecules, crystals or any substances. These particles can include nuclei or photons.

Electromagnetic

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radiation consists of photons.

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*Physics Subatomic*

*Particles And Radiation*

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Physics, Subatomic

Particles and Radiation

14) Carbon exists as three naturally occurring isotopes: C-12, C-13 and C-14. As the number of neutrons

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increase in the isotope,  
the nuclear charge (A)  
increases (B) decreases  
(C) remains the same

15) An atom of an  
element is

*Chapter 12 Nuclear  
Physics Subatomic  
Particles And ...*

Subatomic physics deals  
with objects of the size  
of the atomic nucleus  
and smaller. We cannot

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see subatomic particles directly, but we may obtain knowledge of their structures by observing the effect of projectiles that are scattered from them.

### *B2.IV Nuclear and Particle Physics*

Physics 416 Fig. 12.1, they directed a beam of 5.5 MeV  $\alpha$ -particles emitted from a  $^{214}\text{Po}$

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Bi radioactive source at a thin metal foil made of gold. Figure 12.2 shows a schematic diagram of this experiment. Alpha-particles emitted by a  ${}_{83}^{214}\text{Bi}$  radioactive source were collimated into a narrow beam by their passage through lead bricks. The beam was

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Condensed Matter

Physics and Complex

Systems. Nuclear and

Subatomic Physics at

Michigan covers a broad

range of topics in

traditional and in

emerging

interdisciplinary

Nuclear Science.

Fundamental research

areas include the origin

of the elements, the

structure of hadrons and

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the nature of dark matter. Applications include homeland security, medical diagnostic imaging and radiotherapy.

*Nuclear and Subatomic  
Physics / U-M LSA  
Physics*

Chapter 5: Subatomic  
Forces and Particles  
Nuclear Physics  
Isotopes. ... For



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example, carbon-12 has 6 protons and 6 neutrons; carbon-14 has 6 protons and 8 neutrons. Isotopes are symbolized by writing the mass number in superscript on the left side of the chemical element symbol.

*Chapter 5: Subatomic  
Forces and Particles -  
Faithful Science*  
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Nuclear / Subatomic  
Physics Physics –  
Chapter 25 (Holt)

Nuclear physics deals  
with how the nucleus of  
an atom changes, and  
the conversion of a  
small amount of mass  
into a large amount of

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energy, in a short period of time. The nucleus of an atom is composed of protons and neutrons.

The Nucleus – Ch. 25,  
Section 1 Atoms are composed of ...

*Nuclear / Subatomic  
Physics*

Quarks and gluons  
(massless subatomic particles that transmit the force binding quarks

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together in a hadron) are color-charged particles. Similar to electrically-charged particles which interact by exchanging photons in electromagnetic interactions, color-charged particles exchange gluons in strong force interactions.

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*nuclear and particle*

*physics – IB Physics*

3/4/2020 PHYS490 :

Advanced Nuclear

Physics : E.S. Paul 12

Spherical Droplet

Energy The energy of a droplet may be expressed as:

$E = E_{LD}$

$(N,Z) = fA + 4\pi R^2 +$

$WZ + C \frac{Z^2}{R} = fA +$

$b \text{ surf } A^{2/3} + WZ + b$

$\text{coul } Z^2 A^{-1/3}$  Here  $R =$

$r_0 A^{1/3}$  is the radius of

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the droplet,  $A$  the number of atoms and  $Z$  is the net charge

*PHYS490: Nuclear  
Physics*

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13 - Nuclei to score high  
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CBSE(NCERT) books.

These notes are  
combined with  
Chapter-11 Dual Nature  
of Radiation and  
chapter-12 Atoms.

*CBSE Class 12 Physics  
Revision Notes for  
Chapter 13 ...*

Physics - Physics -  
Nuclear physics: This  
branch of physics deals



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with the structure of the atomic nucleus and the radiation from unstable nuclei. About 10,000 times smaller than the atom, the constituent particles of the nucleus, protons and neutrons, attract one another so strongly by the nuclear forces that nuclear energies are approximately 1,000,000 times larger

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than typical atomic energies.

Subatomic

Physics - Nuclear

physics / Britannica

The Subatomic Physics chapter of this Holt McDougal Physics Companion Course helps students learn the essential lessons associated with subatomic physics.

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*Holt McDougal Physics  
Chapter 22: Subatomic  
Physics ...*

1. Atoms are composed of three basic particles. These particles are called subatomic and are a) protons b) neutrons c) electrons These subatomic particles are the same in all atoms.

*Chapter 1 page 1 - 16*

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*Page 27/33*

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## 22 Subatomic Physics.

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Physics Flashcards /  
Quizlet*

The subscript indicating the atomic number is actually redundant because the atomic symbol already uniquely

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specifies  $Z$ . Physics

Consequently,  
 $\text{\(_6^{12} C\)}$  is more  
often written as  $12\text{ C}$ ,  
which is read as  
“carbon-12.”

Nevertheless, the value  
of  $Z$  is commonly  
included in the notation  
for nuclear reactions  
because these reactions  
involve changes in  $Z$ .

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- *Protons, Neutrons, and*

...  
Subatomic  
Atomic and Subatomic  
Particles And  
Physics Trivia

Questions & Answers :  
Physics This category is  
for questions and  
answers related to  
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as accurate as possible.  
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found here: Atomic and  
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Quizzes

*Atomic and Subatomic  
Physics Trivia  
Questions & Answers ...*

In the physical sciences,  
subatomic particles are  
smaller than atoms.

They can be composite

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Nuclear Physics

particles, such as the neutron and proton; or elementary particles, which according to the

standard model are not made of other particles.

Particle physics and nuclear physics study these particles and how they interact. The

concept of a subatomic particle was refined

when experiments

showed that light could



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behave like a stream of particles as well as exhibiting wave-like properties. This led to the conc

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