

91244_Nuclear Physics_2013

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
The total number of protons in the nucleus is called as _____.	Mass number (A)	Atomic number (Z)	Both a) & b)	None of This
Radioactivity is discovered by _____ in 1896.	Rutherford	Henry Becquerel	Neils Bhor	Enrico Fermi
_____ are short range forces.	Gravitational Force	Nuclear Forces	Both a) & b)	None of these
The nuclei are arranged in the periodic table according to their _____.	Mass number (A)	Atomic number (Z)	Both a) & b)	None of these
_____ is helium nucleus having two unit positive charges.	Alpha particle	Beta particle	Gamma rays	None of these.
Nuclear forces are _____ forces.	Short rage	Repulsive	Attractive	Both a) & c)
Nucleus is made up of _____	Protons	Neutrons	a) & b)	Electrons
_____ possesses negative charge and mass equal to that of electron.	Alpha particles	Beta particles	Gamma rays	None of these.
Nuclear forces are _____ forces.	Charge independent	Repulsive	Attractive	Both a) & c)
The spin of each nucleon is S = _____.	$\frac{1}{2}$	$\frac{3}{2}$	0	1
_____ are electromagnetic waves in nature having very small wavelength.	Alpha particle	Beta particle	Gamma rays	None of these.
Out of four fundamental forces, _____ are strongest of all forces.	Gravitational forces	Electromagnetic forces	Nuclear Forces	Weak interaction forces
If electric quadrupole moment Q is positive then nucleus has _____ shape.	Spherical	Prolate	Oblate	None of these
_____ are electrically neutral.	Alpha particles	Beta particle	Gamma rays	None of these.
_____ forces have saturation property.	Gravitational	Nuclear	Electromagnetic	None of these
If electric quadrupole moment Q is negative then nucleus has _____ shape.	Spherical	Prolate	Oblate	None of these
_____ forces are non-central forces.	Alpha particles	Beta particle	Gamma rays	None of these.
_____ forces are non-central forces.	Nuclear	Gravitational	Electromagnetic	None of these
If electric quadrupole moment Q is zero then nucleus has _____ shape.	Spherical	Prolate	Oblate	None of these

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_____ are not deflected by electric field.	Alpha particles	Beta particle	Gamma rays	None of these
Mass of meson is equal to _____ times mass of electron.	273	373	475	175