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- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur

(Autonomous)

Department of Physics

ICT based CIE

on

B.Sc. III: Internal Examination of Nuclear Physics

Conducted by

Mr. S. V. Malgaonkar

On

Date:03/02/2021, Time: 12:00 to 01:00 pm

(2020 – 21)

Vivekanand College, Kolhapur. (Autonomous) Dept. of Physics Internal evaluation examination Feb 2020-21

B.Sc. III SEM V

Subject: Physics paper VI (Section I)

Title: Nuclear Physics

Date:03/02/2021

Time: 12:00 to 01:00 pm

Marks: 20

Instructions: 1. All questions are compulsory
2. Each question carry 1 mark
3. Submit Google form in scheduled time .

* Indicates required question

1. Name *

2. Email ID *

3. Roll No. (If Available)

4. Mobile No. *

5. The cyclotron mainly used to accelerate *

Mark only one oval.

- positive ions
- negative ions
- neutral ions
- both a and b

6. Betatron works on the principle of *

Mark only one oval.

- self induction
- mutual induction
- plastic property
- magnetic property

7. Mass defect is the measure of *

Mark only one oval.

- sound energy
- heat energy
- light energy
- binding energy

8. Semi empirical mass formula depends on *

Mark only one oval.

- collective model
- Liquid Drop model
- Shell model
- a and c

9. G M counter is *

Mark only one oval.

- ionization chamber
- magnetic chamber
- electric chamber
- nuclear chamber

10. Rapid increase of ion in GM counter is known as *

Mark only one oval.

- sputtering
- cooling
- Avalanche
- heating

11. The time for which G M counter stops its working is called as--- *

Mark only one oval.

- recovery time
- dead time
- future time
- a and c

12. Scintillation is nothing but *

Mark only one oval.

- flash of light
- darkness
- coldness
- a and b

13. Negativeness of packing fraction describes---- *

Mark only one oval.

- instability of element
- stability of element
- elastic property
- magnetic property

14. 1 atomic mass unit is equal to----MeV *

Mark only one oval.

931

831

731

631

15. -----interaction is strongest. *

Mark only one oval.

nuclear

electromagnetic

gravitational

both B and C

16. Nuclear forces are *

Mark only one oval.

charge independent

neutral

charge dependent

both a and c

17. Nuclear forces are strongly *

Mark only one oval.

- repulsive
- weak
- attractive
- electrical

18. Nuclear forces are *

Mark only one oval.

- non electrical forces
- electrical forces
- long-range forces
- both a and c

19. Nuclear forces are *

Mark only one oval.

- unsaturated
- saturated
- magnetic
- neutral

20. Elementary particles are *

Mark only one oval.

- not single particles
- not charged particles
- not composite particles
- not material particles

21. Gravitational interaction is *

Mark only one oval.

- stronger than nuclear force
- weaker than nuclear force
- equal to nuclear force
- 1/2 of nuclear force

22. Radius of the nucleus is roughly given by----- *

Mark only one oval.

- $R=R_0A^{(1/3)}$
- $R=R_0A^{(1/2)}$
- $R=R_0A$
- $R=2R_0A^{(1/3)}$

23. Nuclear forces-----the spins of the nucleons *

Mark only one oval.

- depends on
- does not depends on
- partly depends on
- mainly depends on

24. The field particle in electromagnetic force is *

Mark only one oval.

- muon
- photon
- pion
- hyperon

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Google Forms

Vivekanand College, Kolhapur. (Autonomous) Dept. of Physics Internal evaluation examination Feb 2020-21

29 responses

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Name

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SAMMED RAJENDRAN LATTHE

Mandar Dnyandeo Patil.

Pranav Sharbidre

ROHAN RAJU SONKAMBLE

Radhika thorat

Pooja Sanjay khandekar

Aakansha Bhimarao patil

Rutuja Gurav

Sayali santosh Koli

Rajat Patil

Vijayraj Maruti Patil

Avinash Sanjay Shelar

Anuja Dattajirao Patil

Abhishek Ashok Dayama

Mayuresh More

Jyoti vinayak kaore

Alsaba javed sayyad

GAURAV GAUTAM MANE



Prakash Ananda Patil

OMKAR JANABA PATIL

Nikhil Sandeep Jadhav

Prajakta krushnat patil

Omkar Dhanaji patil

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8007

8021

8010

8015

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8005

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8003



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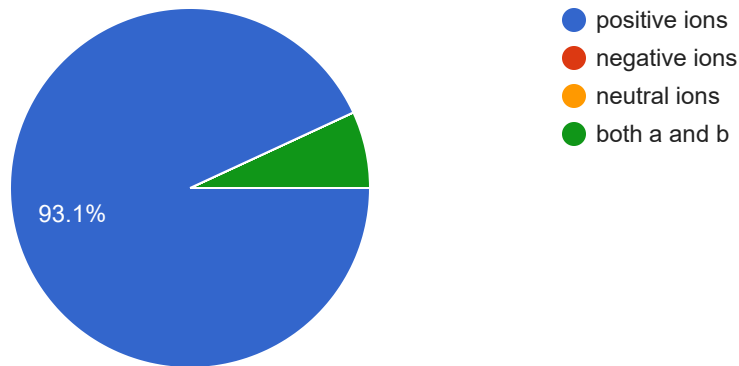
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The cyclotron mainly used to accelerate

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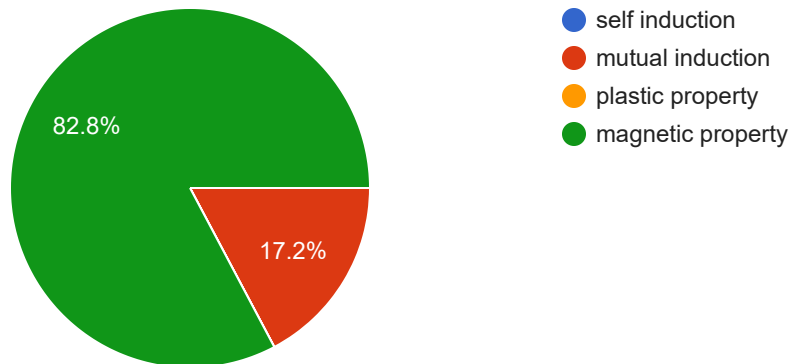
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Betatron works on the principle of

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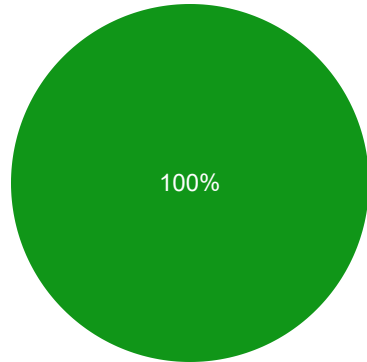
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Mass defect is the measure of

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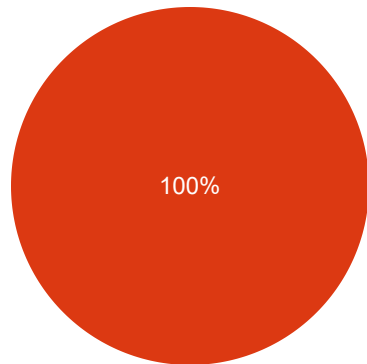


- sound energy
- heat energy
- light energy
- binding energy

Semi empirical mass formula depends on

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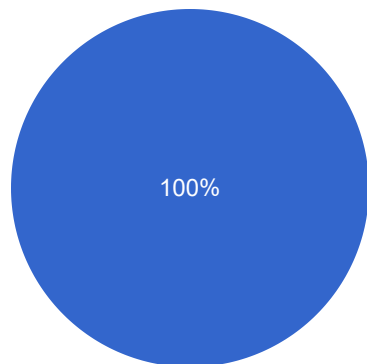


- collective model
- Liquid Drop model
- Shell model
- a and c

G M counter is

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29 responses



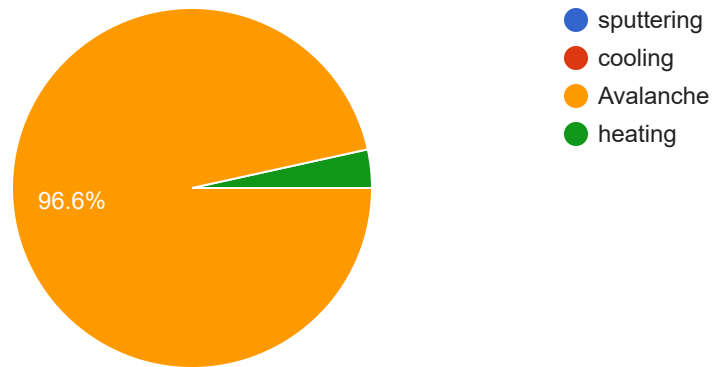
- ionization chamber
- magnetic chamber
- electric chamber
- nuclear chamber



Rapid increase of ion in GM counter is known as

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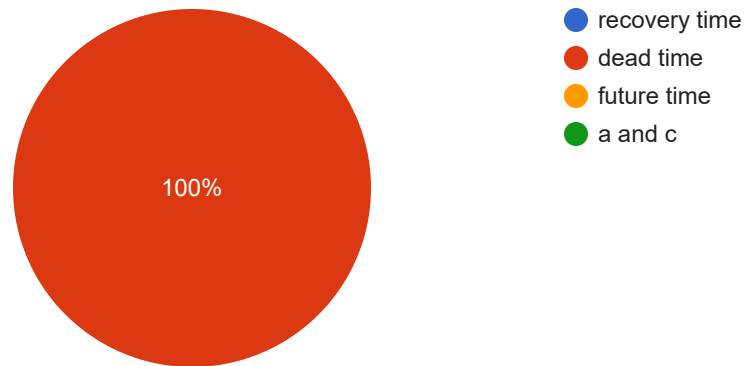
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The time for which G M counter stops its working is called as---

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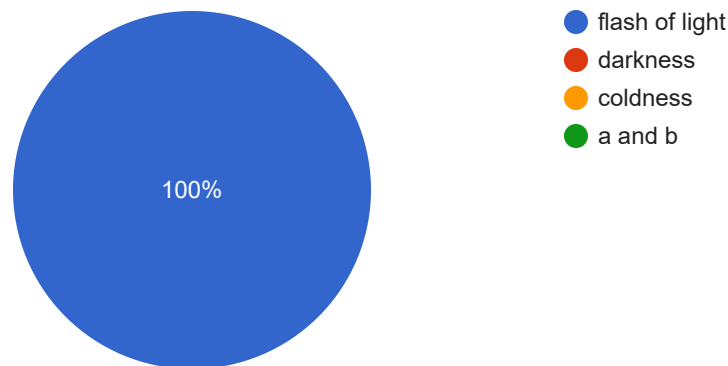
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Scintillation is nothing but

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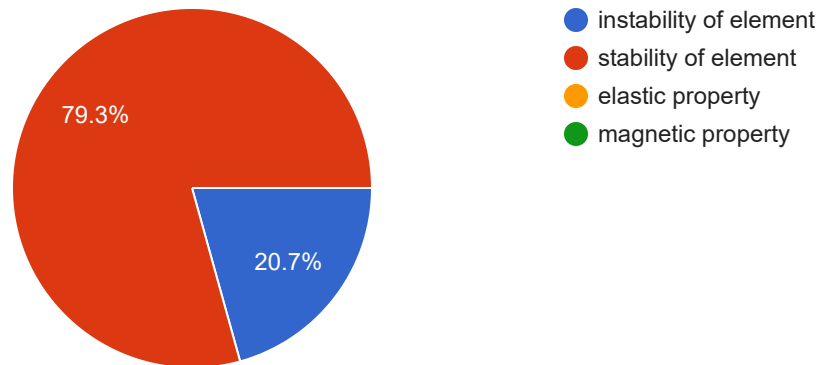
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Negativeness of packing fraction describes---

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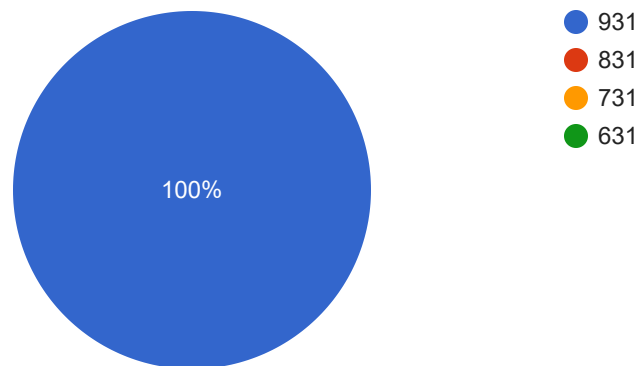
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1 atomic mass unit is equal to---MeV

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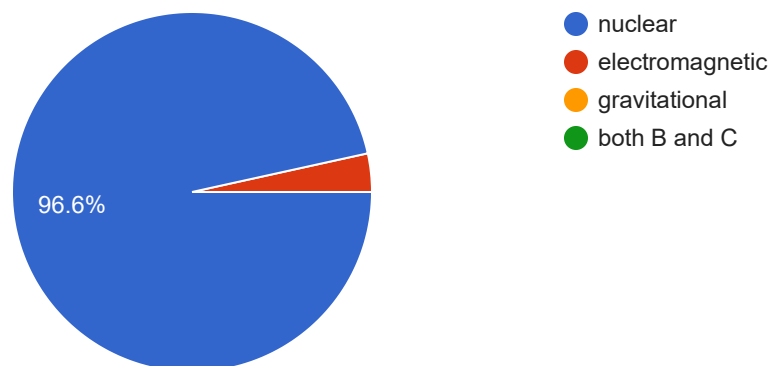
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-----interaction is strongest.

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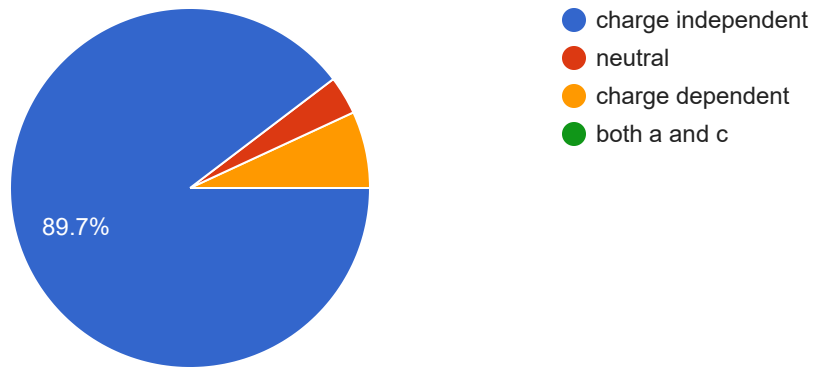
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Nuclear forces are

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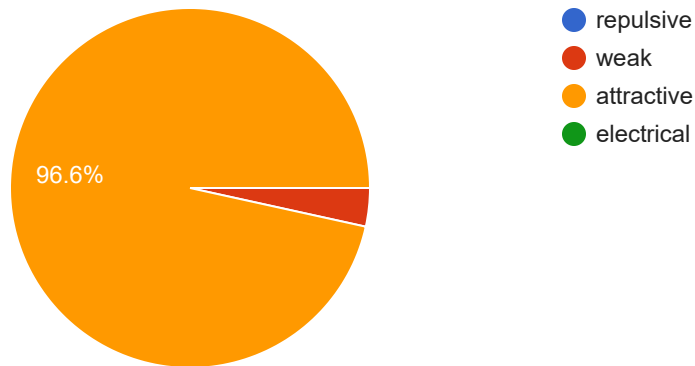
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Nuclear forces are strongly

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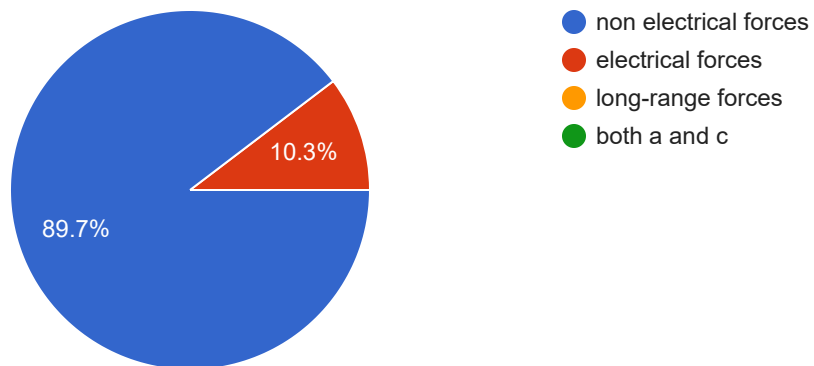
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Nuclear forces are

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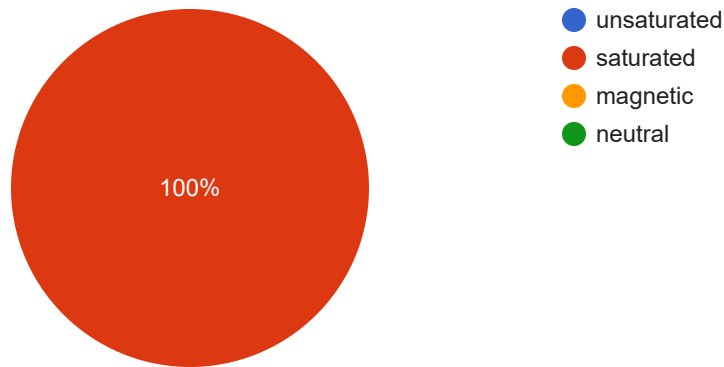
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Nuclear forces are

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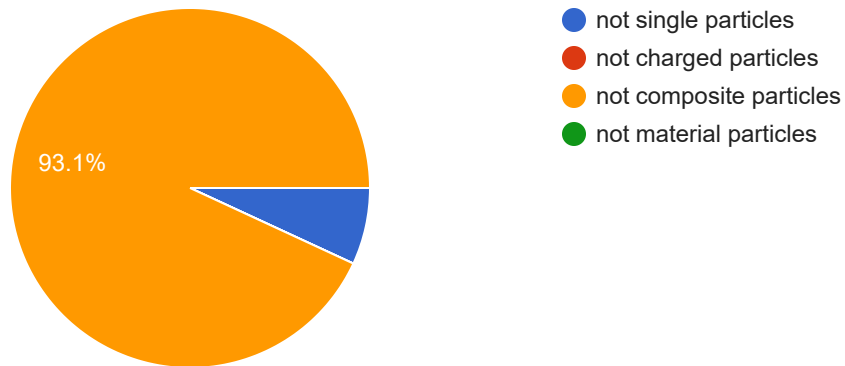
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Elementary particles are

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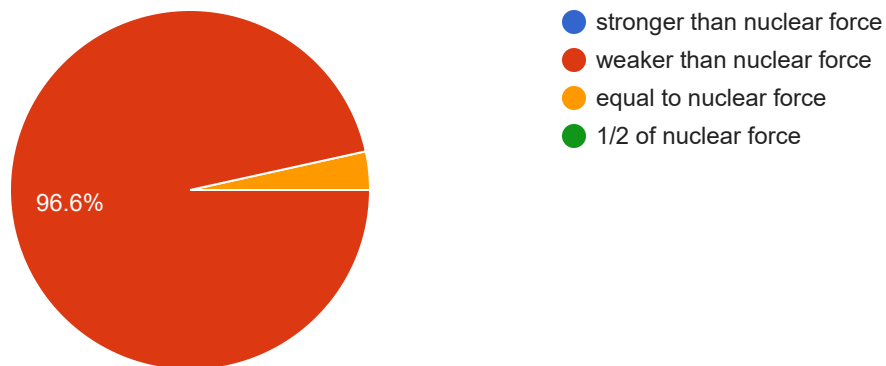
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Gravitational interaction is

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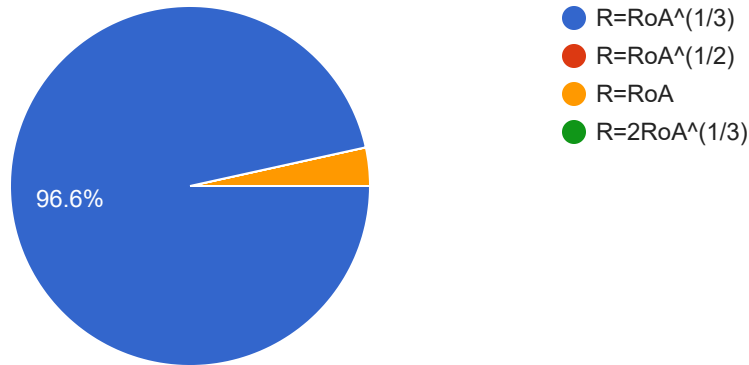
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Radius of the nucleus is roughly given by-----

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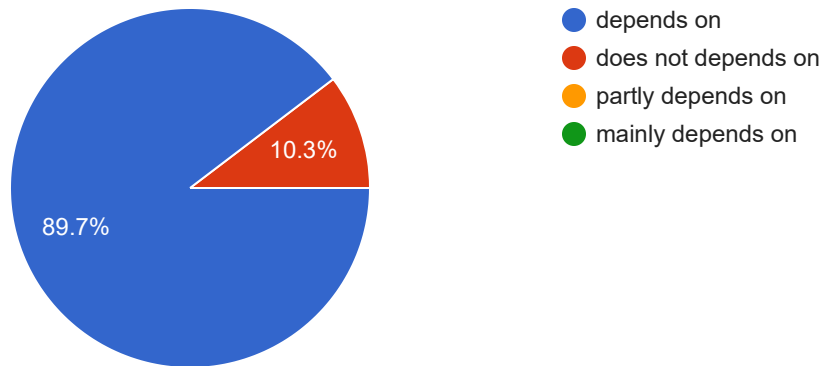
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Nuclear forces-----the spins of the nucleons

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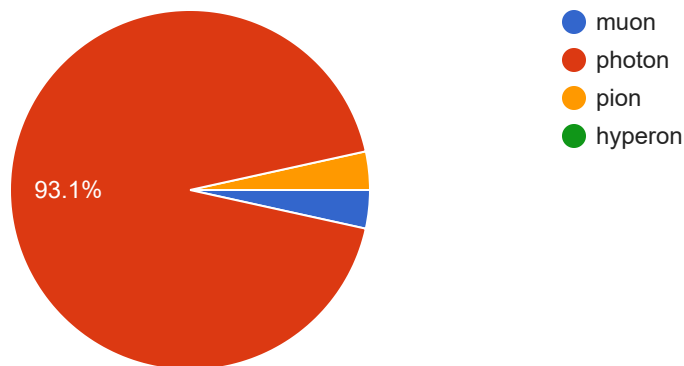
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The field particle in electromagnetic force is

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