

## Mass Energy in Pythagoras formula Sree Debasish Dasgupta

### Abstract:

In my view is every particle and atom and Neutron create up four subjects, these four subjects are Time, space, Energy, and magnetic field. In this article, Each subject (Time, space, energy, etc.) follows Pythagoras formula  $(a)^2 + (b)^2 = C^2$ ,

the calculation shown how the values obtained from each section comply with the Pythagoras formula  $(a)^2 + (b)^2 = C^2$ , When energy changes from mass to energy or from energy to mass, different energy is found from every different substance in the world. This energy depends on the amount of matter less and more, that is, if the amount is increased, more energy will be available, this amount means more space and energy means more energy will be available for a longer period of time. Thus time and space are involved in the formation of matter.

Here Total energy in Square, 'a' & 'b' =  $1.60217653 \times 10^{19}$  Unit. and 'C' =  $1.60217653 \times 10^{19}$  Unit. Because 'C' = (a) + (b). as per my view 'X' = electrical magnetic field, it's total value 432 Unit.

'Y' = Time, Value = 3600 Unit. 'Z' = space, Value 360 Unit.

Some of clue have been made in favor the information giving in the previous article, [Like, energy = mass – (mass/10)]

### Introduction:

This article discusses Pythagoras formula and atomic mass, energy, Neutron etc. in the present article equal 56 Triangles are drawn in a hexagon. This hexagon is located in a circle. Three numbers of quadrilaterals (Square, 'a' & 'b' and 'C') are drawn in it. 'a' & 'b' quadrilaterals (equal Square,) is divided into 8 triangles. And 'C' is (8+8) = 16 triangles. Total triangle in Square, 'a' & 'b' and 'C' are (8+8+16) = 32 number.

Each quadrilaterals (Square, 'a' & 'b' and 'C') follows Pythagoras formula  $(a)^2 + (b)^2 = C^2$ , Triangles located outside these three quadrilaterals (Square, 'a' & 'b' and 'C', (56 – 32) = 24 numbers triangles are further divided into 3 part, ('X' 'Y' 'Z' each part 8 numbers triangle) Which in shown in image (bellow).

### 1.

We know that proton – mass – energy – equivalent = Proton =  $1.503277484 \times 10^{10}$  joule, Newton =  $1.503277484 \times 10^{10}$  joule,

$1.503277484 \times 10^{10}$ , meter<sup>2</sup> kilogram / second<sup>2</sup>

+/-  $6.6 \times 10^{18}$  joule. Length<sup>2</sup> x mass x time<sup>-2</sup>,  $1.503277484 \times 10^{10}$  Joule

Neutron mass =  $1.6749 \times 10^{27}$  Kg, Proton mass =  $1.672623 \times 10^{27}$  Kg.

Electron mass =  $9.109390 \times 10^{31}$  Kg. or  $9.109390e-31$

Energy of Electron =  $-1.60217653 \times 10^{19}$  Unit.

Energy of Proton =  $+1.60217653 \times 10^{19}$  Unit.

As per  $e=mc^2$

When energy =  $1.60217653e-19$  Unit in that moment Mass =  $1.782662 \times 10^{36}$  Unit

$(1.60217653 \times 10^{19} / 1.782662 \times 10^{36}) = 8.9875512015177302259205614973562e+16 = C^2$

As per this view

One Proton energy =  $1.672623 \times 10^{27} \times 8.9875512015177302259205614973562e+16$

=  $1.5032784853336190483669927333392 \times 10^{10}$  Unit

Electron Energy =  $(1.6021766e-19 / 1.782662e-36) * 9.10939e-31$  or -

$9.109390 \times 10^{31} \times 8.9875512015177302259205614973562e+16$

=  $8.1871109039593596542698503698402e-14$  Unit .

[But we know one electron energy =  $(-1.60217653e-19)$  Unit and Proton's energy = ,  $(+1.60217653e-19)$  Unit ]

According to the value obtained form the above calculation,

the amount of this energy is hidden inside the Pythagoras formula  $(a)^2 + (b)^2 = C^2$ ,

In this article total Calculation (Energy = 1.60217653e-19 Unit, Mass = 1.782662e-36 Unit)  
 And (mass = 1.672623e-27 Unit Proton mass & energy = 1.5032784196545335010226279575152e-10 Unit )

**1/1**

**As per  $e=mc^2$**

Relation between ( Energy = 1.60217653e-19 Unit, -- Mass= 1.782662e-36 Unit)  
 And (Proton energy = 1.5032784196545335010226279575152e-10 Unit, mass = 1.672623e-27 Unit)

(A) – ( Energy x Mass ) 1.60217653e-19 \* 1.782662e-36 = 2.85613921732286e-55 --- (a)

(B) – ( energy x mass )

1.5032784196545335010226279575152e-10 \* 1.672623e-27 =

2.5144180601178247880809710421829e-37 --- (b)

(a) / (b) = 2.85613921732286e-55 / 2.5144180601178247880809710421829e-37

= 1.1359046701999198466437634247209e-18 ---- (la) [source will be discuss in this article]

[ (a) x (b) = 2.5144180601178247880809710421829e-37 \* 2.85613921732286e-55

= 7.1815280302473880328624164760998e-92

7.1815280302473880328624164760998e-92 \* 9.01<sup>64</sup> = 9.0908288719008089524361213634111e-31

Electron mass.

(a) / (b) = 8.8035556700722028905113412742298e+17

$\sqrt{8.80355567007220289051134127423e+17} = 9.3827265067634806822605743545327e+8$  MeV of proton]

As per Equation -- (la),  $\sqrt{1.1359046701999198466437634247209e - 18} =$   
 1.0657882858241217536767101731831e-9

1.0657882858241217536767101731831e-9, ---- (lb) Either 1.782662e-36 / 1.672623e-27 =

1.0657882858241217536767101731831e-9 (Source will be discuss in this article)

1.0657882858241217536767101731831e-9 \* 1.672623e-27 (Proton mass)

= 1.782662e-36

1.0657882858241217536767101731831e-9 \* 1.5032784196545335010226279575152e-10 (P. energy)

= 1.60217653e-19 Energy

.Proton energy x 1.0657882858241217536767101731831e-9 = 1.60217653e-19 Energy

Proton mass x 1.0657882858241217536767101731831e-9 = 1.782662e-36 Mass.

Either 1.782662e-36 Mass / 1.0657882858241217536767101731831e-9

= 1.672623e-27 = Proton mass

1.60217653e-19 Energy / 1.0657882858241217536767101731831e-9

= 1.5032784196545335010226279575152e-10

1.782662e-36 / 1.60217653e-19 = 1.1126501771936454467973014184648e-17--- (lc)

**1/2**

**method, As per Pythagoras Formula** (See Image bellow)

Figure 1 (a) & (b) is same square area and value.

And square area of is 'C' equal of (a) + (b)

Figure 2, inside of (a) & (b) are 8 parts of triangle, and 'C' is 16 part of triangle.

In a Circle, out of Square (a), (b) & 'C' there are another 3 part 'X' 'Y' 'Z' (see Figure 2) all are 8 part of triangle total 56 numbers of equal triangles in the circle (see Figure 3)

The Circle divided 2 part A & B,

Here discus about how 'a' & 'b' and 'C' interact with each other and how they are convert Nuclear Binding Energy and (Pi), relation with  $(a)^2 + (b)^2 = (C)^2$

The calculation of the interaction and reaction 'a' & 'b' when the main energy (1.60217653e-19 Unit) is divided by root. That means Square area of 'a' is 2 part & 'b' also 2 part.

1<sup>st</sup> Calculation

$[\sqrt{1.60217653e - 19 \text{ Unit (energy)}} = 2.0006798189311137778946643847195e-5. \text{ Unit}]$

See figure 4 & 4A in the Image bellow.

$(2.0006798189311137778946643847195e-5)^2 + (2.0006798189311137778946643847195e-5)^2 =$   
 $8.0054394757564684245163039923373e-10$   
 $(8.0054394757564684245163039923373e-10) / (1.5032784853336190483669927333392e-10)$   
 $[1.5032784853336190483669927333392e-10 \text{ Unit Energy of Proton}]$   
 $= (5.3253203274440797472232884188169)^{^2} = 28.359036589889120738591606070912$   
 $(28.359036589889120738591606070912 / 4) = 7.0897591474722801846479015177281 \text{ Nucleus}$   
**Binding energy.**  $\sqrt{7.0897591474722801846479015177281} = (2.6626601637220398736116442094084$   
 $/ 2) = 1.3313300818610199368058221047042$   
 $(1.3313300818610199368058221047042)^{^4} = \mathbf{3.1415427980729295704582291307592 (Pi)}$   
**[ Example for Image -1,  $\{[\text{Square (a) + Square (b)}] / \text{Proton energy}\}^{^2} / 4 = \text{Binding energy} ]$**

**[ note:  $\sqrt{8.0054394757564684245163039923373e-10} = 0.00531919968970758718886881769835$**   
 $(0.00531919968970758718886881769835 / 9.109390e-31) [\text{Electron mass}] =$   
 $5.8392490492860522920511886068661e+27 \text{ Unit,}$   
 $^{256}\sqrt{5.8392490492860522920511886068661e+27} = 1.2836964258839194878867439878894$   
 $1.2836964258839194878867439878894 * 7 = 8.9858749811874364152072079152256 \text{ Unit (almost}$   
 $\text{same digit of speed of light square for why 256 times root use here because } 16 \text{ square} = 256)$   
 $1.2836964258839194878867439878894 * 0.413334 = 0.5305953784963 \text{ Unit.}$   
 $(L = 0.413334 \text{ and } 1.28369\dots, \text{digit/number is a constant unit, } 0.53\dots, \text{ unit Radius of 'H' atom's, and also}$   
 $\text{atomic gravity this has been discussed in detail in all previous articles so follow reference article)}$   
 $\text{Or } 8.9858749811874364152072079152256 / 7 \text{ (either } 9.1 \text{ divided by resultant binding energy } 7.089)$   
 $= 1.2836964258839194878867439878894, 1.2836964258839194878867439878894^{^256}$   
 $= 5.8392490492860522920511886068661e+27.$   
 $(0.00531919968970758718886881769835 / 5.8392490492860522920511886068661e+27)$   
 $= \mathbf{9.10939e-31 \text{ Unit electron mass}}$ , in this process we can calculate electron mass also, another process  
will be discuss in this article.]

**1/3**

**method** – As per Rule  $(a)^2 + (b)^2 = (C)^2$  how to convert Proton energy  
 $(1.5032784196545335010226279575152e-10) \text{ Unit to } 1.60217653e-19 \text{ Unit energy}$   
And about 4Pi.  
Here, in this part of calculation Energy divided by 2, which is value of 'a' and 'b'  
Square area.

**[ Energy  $\sqrt{(1.60217653e-19 / 2)} = 8.01088265e-20, \sqrt{8.01088265e-20} =$**   
 $2.8303502698429394217655138448226e-10. [\text{Square 'a' \& 'b' are quail Area and Value.}]$   
 $(2.8303502698429394217655138448226e-10)^{^2} + (2.8303502698429394217655138448226e-10)^{^2}$   
 $= 1.60217653e-19 \text{ Unit of energy}$   
 $(a = 2.8303502698429394217655138448226e-10) \& (b = 2.8303502698429394217655138448226e-10)$   
One part, about (a) Either (b) Square:  $= 2.8303502698429394217655138448226e-10$   
 $(2.8303502698429394217655138448226e-10 / 1.5032784853336190483669927333392e-10) (\text{Proton}$   
 $\text{energy}) = 1.8827850577631372556462700585127$   
 $(1.8827850577631372556462700585127)^{^4} = \mathbf{12.566171192291718281832916523035}$   
**It is 4 Pi.**

**Rule:-1,  $[\sqrt{(\text{Energy}/2)} / \text{Proton Energy}]^{^4} = 4\text{Pi.}$**

**[Note:  $\sqrt{1.60217653e-19} = (4.0027197378782342122581519961687e-10)$**   
 $(4.0027197378782342122581519961687e-10) + (4.0027197378782342122581519961687e-10)$

$$1.60217653e-19 * 2 = 3.20435306e-19, \sqrt{3.204353060000e-19} = 5.6607005396858788435310276896454e-10$$

$$(5.6607005396858788435310276896454e-10) / (1.5032784853336190483669927333392e-10)$$

$$= 3.7655701155262745112925401170256.....(i) \text{ [will be discuss next step ]}$$

$$\text{Or } \sqrt[4]{12.566171192291718281832916523035} = 1.8827850577631372556462700585127$$

$$(2.8303502698429394217655138448226e-10 / 1.8827850577631372556462700585127)$$

$$= 1.5032784853336190483669927333392e-10 \text{ energy}$$

So Energy 1.60217653e-19 to Proton energy Either Proton energy to 1.60217653e-19 Unit.

$$\text{Rule:-2 } [(\sqrt{1.60217653e-19 / 2}) / (\sqrt[4]{4\pi})] = \text{Proton Energy.}$$

As per Image -1, 'a' & 'b' same value.

Example:  $\sqrt{a \text{ or } b} / 1.8827850577631372556462700585127 = \text{Proton Energy.}$

$$= 1.60217653e-19 / 2 = 8.01088265e-20, \sqrt{8.01088265e-20} = 2.8303502698429394217655138448226e-10 / 1.8827850577631372556462700585127, (\sqrt[4]{4\pi}) = 1.5032784853336190483669927333392e-10 \text{ Unit Proton Energy}$$

[ Note: About 1.8827850577631372556462700585127 Unit,

$$(1.8827850577631372556462700585127 / 0.41333) = 4.5551618749259363115338108981025$$

$$(4.5551618749259363115338108981025)^2 = 20.7495 \text{ Unit } (20.7495 / 4) = 5.187374926695$$

$$5.187374926695 / \sqrt{3} = 2.9949323103148734672251289879132, \text{ (or 3)}$$

$$\sqrt[3]{4.5551618749259363115338108981025} = 1.6576821906446909668021833608666 \text{ Unit.}$$

$$\sqrt{1.6576821906446909668021833608666} = 1.287510074 \times 7 = 9.012570518, (L = 0.413334 \text{ Ref..1})$$

Now  $\pi = \sqrt{1.60217653e-19} = 4.0027197378782342122581519961685e-10$

$$4.0027197378782342122581519961685e-10 / 1.5032784196545335010226279575152e-10$$

$$= (2.6626602800551704435263034591073 / 2) = 1.3313301400275852217631517295536$$

$$(1.3313301400275852217631517295536)^2 = 3.1415433470961018845922239897717 = \pi$$

$$\text{Rule:- 3, } [(\sqrt{\text{Energy} / \text{Proton energy}}) / 2]^{4} = \pi$$

## 2. Proton energy to Mass energy according to the Pythagoras rule and here mention Square area and triangles which is in this square area.

$$(4\pi = 12.566171192291718281832916523035, \sqrt[4]{12.566171192291718281832916523035} = 1.8827850577631372556462700585127 \text{ Unit}$$

Again:  $1.8827850577631372556462700585127 * 2 = 3.7655701155262745112925401170254$

$$[(\sqrt{1.6021766e-19} / 2) = 2.8303503316727418858431448278252e-10]$$

$$2.8303502698429394217655138448226e-10 * 3.7655701155262745112925401170254.....(i)$$

$$= 1.0657882858241217536767101731831e-9 \text{ Source of --- (lb)}$$

$$(1.0657882858241217536767101731831e-9 * 1.5032784853336190483669927333392e-10)$$

$$= 1.6021766e-19 \text{ Energy, or } 1.6021766e-19 / 1.0657882858241217536767101731831e-9$$

$$= 1.5032784853336190483669927333392e-10 \text{ Proton Energy.}$$

So we can write here according to the value obtained from the above calculation as per Image.

[When (a) & (b) acts, 'C' reacts with (a) & (b) in the opposite direction. square 'a' + 'b' = square 'C' = 1.6021766e-19 Unit. (See Image)]

$$\sqrt{[(\text{square 'a' + 'b' or square 'C'}) / 2]} \times 2 \times (\sqrt[4]{4\pi}) = 1.0657882858241217536767101731831e-9 \text{ -- (iA)}$$

Example:  $1.6021766e-19 / 2 = 8.010883e-20$ ,  $\sqrt{8.010883e-20} = 2.8303503316727418858431448278252e-10 * 2 (\sqrt[4]{12.566171192291718281832916523035})$   
 Or  $2.8303503316727418858431448278252e-10 * 2 * 1.8827850577631372556462700585127 = 1.0657882625416756043027438806527e-9$  Unit, same way for next calculation.

Or (Square 'a' + 'b' either 'C') / [(square 'a' + 'b' or square 'C') / 2] x  $(\sqrt[4]{4\pi i}) =$  Proton Energy.

---- (iiA)

$[(\text{Square 'a' + 'b' either 'C'}) / (X/Y)]^{/2} / [(a + b) \text{ or 'C'}] = \text{Mass / Energy} = 1.782662e-36 / 1.6021766e-19 = 1.112650128581331171607424549828e-17$  Unit. ---- (iiiA)

(Proton Mass)  $1.672623e-27 / 1.5032784853336190483669927333392e-10$  (Proton energy)

$= 1.1126501285813311716074245498281e-17$  Unit. ---- (ivA)

As per mention calculation : (iiA) x (iiiA) = (iiA) x (ivA) =  $(1.5032784853336190483669927333392e-10) \times (1.112650128581331171607424549828e-17) = 1.672623e-27$  Unit = Proton Mass,

So as per figure 1&2 square 'a' + 'b' = square 'C' =  $1.6021766e-19$  Unit.

$\{[(\text{Square 'a' + 'b' either 'C'}) / (X/Y)]^{/2} / [(a + b) \text{ or 'C'}]\} \times \{[(\text{square 'a' + 'b' or square 'C'}) / 2] \times (\sqrt[4]{4\pi i})\} =$   
 Proton mass. =  $1.672623e-27$  Unit ....(1m)

Proton Mass  $1.672623e-27 * 1.0657882858241217536767101731831e-9 = 1.782662e-36$  Mass.

So (iA) x (1m) = Mass.

Hence, as per Image square 'a' + 'b' = square 'C' =  $1.6021766e-19$  Unit. we can write:-

$\sqrt{[(\text{square 'a' + 'b' or square 'C'}) / 2] \times 2(\sqrt[4]{4\pi i}) \times \text{Proton mass} \dots (1m) \text{ or } \{[(\text{Square 'a' + 'b' either 'C'}) / (X/Y)]^{/2} / [(a + b) \text{ or 'C'}]\} \times \{[(\text{square 'a' + 'b' or square 'C'}) / 2] \times (\sqrt[4]{4\pi i})\} = \text{Mass}$

Same process we can calculate energy also

For example  $1.6021766e-19 / 1.5032784853336190483669927333392e-10 =$

$1.0657882858241217536767101731831e-9 =$  (iA)

Or  $\{[(\text{Square 'a' + 'b' either 'C'}) / (X/Y)]^{/2} / [(a + b) \text{ or 'C'}]\} \times \{[(\text{Square 'a' + 'b' either 'C'}) / ((\text{square 'a' + 'b' or square 'C'}) / 2)] \times (\sqrt[4]{4\pi i}) = \text{Proton mass}\} / \{\sqrt{[(\text{square 'a' + 'b' or square 'C'}) / 2] \times 2(\sqrt[4]{4\pi i})} = (iA)\} =$   
 **$1.5032784853336190483669927333392e-10$  Unit Proton energy.**

We know  $1.672623e-27$  Unit Proton mass,

$1.672623e-27 * 1.0657882858241217536767101731831e-9 = 1.782662e-36$  Mass.

So, Rule: 4,  **$[(\sqrt[4]{4\pi i}) \times 2] \times \sqrt{(\text{Energy} / 2)} \times \text{Proton energy} = \text{Energy}.$**

Rule: 5,  **$[(\sqrt[4]{4\pi i}) \times 2] \times \sqrt{(\text{Energy} / 2)} \times \text{Proton mass} = \text{Mass}.$**

[Note:  $12.566171192291718281832916523035 * 3600$  Sec. =

$4.5238216292250185814598499482926e+4$ ,  $(4.5238216292250185814598499482926e+4)^{/4} =$

$4.188146751069289804378863809097e+18$

$4.188146751069289804378863809097e+18 = (4/3) \times \pi \times 10^{/18}$

$4.188146751069289804378863809097e+18 / \pi = 1.3331285156538783196105425004912e+18$

$(1.3331285156538783196105425004912e+18)^{/2} = 1.7772316392495128918537526609051e+36$

$1.7772316392495128918537526609051e+36 * 1.782662e-36$  (Mass) =

$3.1682033084878151508177944259945$ ,  $(3.1682033084878151508177944259945)^{/2} = 10$  ]

**2/1 Here we can see how  $\sqrt{3}$  Time 3600 Second, and Mass etc act and react and also how to involve each other, (see Figure 4 & 4A in image bellow.)**

Time part = 'Y' = 3600. root3 Cube =  $5.1961524227066318805823390245176 * 4 =$

$20.78460969082652752232935609807$

$(20.78460969082652752232935609807)^{/2} = 432$ . (X/Y =  $(432 / 3600) = 0.12$  & Y/X =  $(3600 / 432) = 8.33333$ )







- 1) The amount of Pi, 4Pi, (4/3) Pi, root> 3. Is hidden inside the Pythagoras formula  $(a)^2 + (b)^2 = C^2$ ,
- 2) 2 Numbers of 1.60217653e-19 Unit Energy present in a Neutron.
- 3) when create a nucleus of atom then Time & Space also act one type of energy,
- 4) In a Neutron 4 type of energy.
- 5) The size either shape of Neutron is never round, they are bound to be hexagonal, pentagonal etc. because if the neutron in round in shape then when they are connected to each other a space will be created between them so they are hexagonal, pentagonal etc. shaped.
- 6)  $(\text{Energy} \times 8.33333)^2 = \text{Mass}$ .  $(\text{Energy} / 0.12)^2 = \text{Mass}$ .
- 7)  $\text{Energy} \times 1.11262258938768e-17 = \text{Mass}$
- 8)  $\text{Mass} \times 1.0657882858241217536767101731831e-9 = \text{Energy}$
- 9)  $[\text{root}>(\text{Energy}/2) / \text{Proton Energy}]^4 = 4\text{Pi}$
- 10)  $[\text{root}> (1.60217653e-19 / 2)] / 4\text{root}> 4\text{Pi} = \text{Proton Energy}$ .
- 11)  $\{[(\text{root} > \text{Energy}) / \text{Proton energy}] / 2\}^4 = \text{Pi}$
- 12)  $\{[4\text{root}> (4\text{Pi})] \times 2\} \times [\text{root}>(\text{Energy} / 2)] \times \text{Proton energy} = \text{Energy}$ .
- 13)  $\{[4\text{root}> (4\text{Pi})] \times 2\} \times [\text{root}>(\text{Energy} / 2)] \times \text{Proton mass} = \text{Mass}$ .
- 14) Each force either energy is always bound by a chain of interactions and reactions.
- 15) in a Atom's Each energy (Time, space, energy, etc.) follows Pythagoras formula  $(a)^2 + (b)^2 = C^2$ ,

**Reference:**

- [1] Atomic Mass Energy Primary Colour <https://data.mendeley.com/datasets/358bfdjvwg/1>  
**DOI:** 10.17632/358bfdjvwg.1, Published: 1 Dec 2018
- [2] Atomic Time – Space, <https://data.mendeley.com/datasets/c5tg973twk/2>  
**DOI:** 10.17632/c5tg973twk.2, Published: 7 Mar 2019
- [3] Atomic Mass Energy and Constant. <https://data.mendeley.com/datasets/k4kkphgt66/3>  
**DOI:** 10.17632/k4kkphgt66.3, Published: 10 Jan 2020
- [4] Energy to Energy to Mass Conversion. <https://data.mendeley.com/datasets/rbx6gr7gds/1>  
**DOI:** 10.17632/rbx6gr7gds.1, Published: 25 Jul 2020

Image for Atomic Mass Energy in Pythagoras formula

