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Spin Object Continuous Delocalization (Embrace the Space)

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Abstract: *Spin object continuous delocalization was presented and an interesting consequence noticed..*

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1. Introduction

As stated previously [1] the delocalization event of spin object in the first step is applying the double surface relation $s(n) = n\left(2 - \frac{1}{\sqrt{1+\frac{\pi^2}{n^2}}}\right)$ characterized by the following energies:

a) The spin object energy in the first step is:

$$E_1^{spin\ object} = mc^2. \tag{1a}$$

b) The unaligned delocalization energy in the first step is:

$$E_1^{unaligned} = \left(\frac{s(1)}{s(0.5)} + \frac{s(1)}{s(10)} - 2\right)mc^2 = \frac{mc^2}{277.055376605596080679967276135\ 53\ldots}. \tag{1b}$$

c) The aligned delocalization energy in the first step is:

$$E_1^{aligned} = \frac{mc^2}{s(277)} = \frac{mc^2}{277.017813451917418614524037759 22\ldots}. \tag{1c}$$

d) And the difference of delocalization energies – the alignment energy – in the first step is:

$$E_1^{alignment} = E_1^{aligned} - E_1^{unaligned} = 4.894\ldots 10^{-7}mc^2. \tag{1d}$$

Which converting into kinetic energy of the localized spin object offers the next rolling speed in the first step:

$$v_1^{rolling} = \sqrt{\frac{10}{7}\frac{E_1^{alignment}}{mc^2}}c = 250{,}677.622\ldots\frac{m}{s}. \tag{1e}$$

Let us suppose that the aligned delocalization energy emerged in the delocalization event of spin object in the first step can take over the role of the object's energy in the second step, i. e. $E_1^{aligned} = \frac{mc^2}{s(277)} = E_2^{spin\ object}$, and so enables the continuous delocalization event in further steps.

2. The Delocalization Event in the Second Step

The delocalization event of spin object in the second step is then characterized by the following energies:

a) The spin object energy in the second step is:

$$E_2^{spin\ object} = \frac{mc^2}{s(277)}. \tag{2a}$$

b) The unaligned delocalization energy in the second step is:

$$E_2^{unaligned} = \left(\frac{s(1)}{s(0.5)} + \frac{s(1)}{s(10)} - 2\right)\frac{mc^2}{s(277)} = \frac{mc^2}{76{,}749.27463237974044021186159356\ldots} \quad (2b)$$

c) The aligned delocalization energy in the second step is:

$$E_2^{aligned} = \frac{mc^2}{s(76\,749)} = \frac{mc^2}{76{,}749.000064297934752809061776381\ldots}. \quad (2c)$$

d) And the difference of delocalization energies – the alignment energy – in the second step is:

$$E_2^{alignment} = E_2^{aligned} - E_2^{unaligned} = 4.661\ldots 10^{-11}mc^2. \quad (2d)$$

Which converting into kinetic energy of the localized spin object offers the next rolling speed in the second step:

$$v_2^{rolling} = \sqrt{\frac{10}{7}\frac{E_2^{alignment}}{mc^2}}\,c = 2{,}446.376\ldots\frac{m}{s}. \quad (2e)$$

The aligned delocalization energy emerged in the delocalization event of spin object in the second step by the same pattern takes over the role of the object's energy in the third step, i. e. $E_2^{aligned} = \frac{mc^2}{s(76749)} = E_3^{spin\ object}$, to enable the delocalization event in further steps. There are an undefined number of events possible where the aligned delocalization energy of spin object in the previous step becomes the spin object energy in the next step of the delocalization event. The energy characteristics of first 8 steps are with the help of big number calculator [2] collected in Table1.

Table1. *The aligned energy* $E_n^{aligned}$*, the unaligned energy* $E_n^{unaligned}$ *and the alignment energy* $E_n^{alignment} = E_n^{aligned} - E_n^{unaligned}$ *in 8 steps of the spin object continuous delocalization*

n	$E_n^{aligned}$	$E_n^{unaligned}$
1	$\frac{mc^2}{277.\mathbf{0}1781345191741861452403775921644960\ldots}$	$\frac{mc^2}{277.\mathbf{05}5376605596080679967276137532\ldots}$
2	$\frac{mc^2}{76{,}749.\mathbf{0}0006429793475280906177638090711\ldots}$	$\frac{mc^2}{76{,}749.\mathbf{27}4632379740440211861593568\ldots}$
3	$\frac{mc^2}{21{,}263{,}723.\mathbf{0}0000023207611388394207921318\ldots}$	$\frac{mc^2}{21{,}263{,}723.\mathbf{11}6916982124008367425059\ldots}$
4	$\frac{mc^2}{5{,}891{,}228{,}783.\mathbf{0}0000000083765244608811847\ldots}$	$\frac{mc^2}{5{,}891{,}228{,}783.\mathbf{80}2139607399609087631\ldots}$
5	$\frac{mc^2}{1{,}632{,}196{,}609{,}143.\mathbf{0}0000000000302341162388\ldots}$	$\frac{mc^2}{1{,}632{,}196{,}609{,}143.\mathbf{79}2469605889542595\ldots}$
6	$\frac{mc^2}{452{,}208{,}846{,}240{,}490.\mathbf{0}0000000000001091266\ldots}$	$\frac{mc^2}{452{,}208{,}846{,}240{,}490.\mathbf{77}2164134079532\ldots}$
7	$\frac{mc^2}{125{,}286{,}892{,}199{,}541{,}048.\mathbf{0}0000000000000007\ldots}$	$\frac{mc^2}{125{,}286{,}892{,}199{,}541{,}048.\mathbf{30}6290698705\ldots}$
8	$\frac{mc^2}{34{,}711{,}407{,}102{,}088{,}562{,}957.\mathbf{0}0000000000000000\ldots}$	$\frac{mc^2}{34{,}711{,}407{,}102{,}088{,}562{,}957.\mathbf{68}9671292\ldots}$
n	$E_n^{alignment} = E_n^{aligned} - E_n^{unaligned}$	
1	0.000000**48**9426823361983305810944302570546132677499894187731046 mc^2	
2	0.000000000**46**612569524539447095542664500347805971345194217630 mc^2	
3	0.00000000000000**25**858189870588477726972226634914465023718707521 mc^2	
4	0.0000000000000000000**23**112034825751003715156127431838408779637 mc^2	
5	0.000000000000000000000000**29**7466231706072848250688456680128854 mc^2	
6	0.00000000000000000000000000000**37**75995930935131291084529639702 mc^2	
7	0.0000000000000000000000000000000000**19**5129322011179809731561765 mc^2	
8	0.000000000000000000000000000000000000000**57**2397476895424915635 **mc^2**	

We can see from Table1 that each further step can be overcome with less alignment energy tending to be zero at infinite step. Although a touch of unpredictability at every turn allows for the possibility that a miracle may happen sooner.

3. ATTENTION

The eighth result in Table 1 attracts attention because the wavelength of the energy of the eighth electron alignment is one and a half times that of the circumference of the observable universe. As follows:

$$E^{alignment\ 8} = 5.723\ 97 \ldots 10^{-40}\ mc^2. \tag{3a}$$

$$E_{electron}^{alignment\ 8} = 5.723\ 97 \ldots 10^{-40}\ x\ 0.510\ 998\ 950\ 69 \ldots 10^{6}\ eV = 2.92494 \ldots 10^{-34} eV. \tag{3b}$$

$$\lambda_{electron}^{alignment\ 8} = 4.238\ 86 \ldots 10^{27}\ m. \tag{3c}$$

$$l_{observable\ universe}^{circumference} = 2.764 \ldots 10^{27}\ \text{m}. \tag{3d}$$

$$R = \frac{\lambda_{electron}^{alignment\ 8}}{l_{observable\ universe}^{circumference}} = 1.533\ 6\ldots \approx 1.5 \tag{3e}$$

4. CONCLUSION

Let's take inspiration from an elementary particle and embrace the space

REFERENCES

[1] Janez Špringer. " Speed of Localized Spin Object" International Journal of Advanced Research in Physical Science (IJARPS), vol 12, no. 05, pp. 1-2, 2025.

[2] https://www.calculator.net/big-number-calculator.html. Retrieved June2025

[3] https://chatgpt.com/. Retrieved July 2025

ADDENDUM

Take your time. The rolling speed at each further step is smaller. For instance, at the 8^{th} step of spin object continuous delocalization it is only a few Compton wavelengths of the electron per second:

$$v_8^{rolling} = \sqrt{\frac{10}{7}\frac{E_8^{alignment}}{mc^2}}\,c = \sqrt{\frac{10}{7}\ 5.72397 \ldots 10^{-40}}\ \ c = 8{,}57 \ldots\ 10^{-12}\ \frac{m}{s} \tag{a}$$

You can go - step by step - further. At the 18^{th}step is found another interesting unaligned, aligned and alignment energy:

$$E_{18}^{unaligned} = \frac{mc^2}{92{,}461{,}596{,}569{,}561{,}424{,}769{,}058{,}576{,}745{,}091{,}463{,}350{,}208{,}541.\mathbf{01785}}. \tag{b}$$

$$E_{18}^{aligned} = \frac{mc^2}{92{,}461{,}596{,}569{,}561{,}424{,}769{,}058{,}576{,}745{,}091{,}463{,}350{,}208{,}541}. \tag{c}$$

And

$$E_{18}^{alignment} = E_{18}^{aligned} - E_{18}^{unaligned} = 2.0882\ x\ 10^{-90}\ mc^{2}. \tag{d}$$

For the spin object of the observable universe possessing $m_{universe}^{observable} c^2 = 5.61\ x\ 10^{88} eV$ the 18^{th}alignment energy $E_{18}^{alignment}$ yields 0.12 eV. Since:

$$2.088216 \ldots 10^{-90}\ x\ 5.61 \ldots 10^{88} eV = 0.12\ eV. \tag{e}$$

The result is flirting with the upper limit of the sum of neutrino masses: $\frac{0.12\ eV}{c^2}$ [3]

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