Review of: "Properties of elementary particles, dark matter, and dark energy"

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Potential competing interests: No potential competing interests to declare.

Manuscript ID.	DVGINE
Manuscript title	Properties of elementary particles, dark matter, and dark energy

Manuscript Evaluation Form

I. Specify your choice for each of the following items: -

(1=Poor, 2= Fair, 3=Good, 4=V. Good, 5=Excellent, N.A. = Not Applicable).

Rating		N.A.	1	2	3	4	5
1-	How consistent is the title with the contents?					X	
2-	How clear are the objectives and to what extent have they been adhered to?					X	
3-	How appropriate is the abstract?				X		
4-	How appropriate is the methodology?					X	
5-	How clear and appropriate is the presentation of the results?					X	
6-	How accurate and appropriate is the data analysis?					X	
7-	How appropriate are the discussion and conclusions?				X		
8-	Suitability of Figures and Tables.					X	
9-	How suitable, sufficient, and recent are the references?				X		
10-	Accuracy and sufficiency of the citation.				X		
11-	Originality.				X		
12-	Language.				X		
13-	Addition to knowledge in the field.				X		
14-	Expected future citation of the work.			X			
15-	Applicability of the results.				X		
16-	Overall evaluation.				X		

1. The authors have proposed explanations of new elementary-particle internal quantum number - isomer which is associated with solutions of "Diophantine equations."Neither is there any solution to this equation, nor is any reference given to it.

2. Equation (4), defines but what is ? equations are not defined properly, create very much confusion, many parameters/ terms are not defined. For instance, what are the values of the parameters in equations (6,7,8, etc.) and how are they fitted?

3. For monopole electromagnetic force in manuscript, you used s=+1 for left-circular polarization and s=-1 for right-circular polarization. Similarly for monopole gravitational force you used s=+2 for left-circular polarization and s=-2 for right-circular polarization, you used this from where, present suitable explanation or references for this.

4. The author has used too many abbreviations: Due to which I am facing a lot of problem in understanding the paper like SUPP-Suggested physics, post-Popular physics, OM, LRI etc., there are many more such abbreviations which are path breaking, and neither have given any earlier reference from where they have used their post and SUPP modelling.

5. I think in table 12,there is atypo error of something missing in column (3), Q>0 what does it means?

6. In section 5.2,talk about Jay boson? What is it please explain?

7. In the star formation which type of quenching is found you talks about some quenching, but which kind of quenching?

8. Manuscript is not written in good manner, some spacing are missing after full stop, and there are some typo errors also like symbol of Laplacian operator, see the parentheses too.

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Final Recommendation		
1- Accept as is		
2- Accept after	Minor revision	Major revisionX
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Finally;

∅ **Research work in general is good, and the topic dealt with is attractive to researchers. It is essential to refer to some relevant research in the introduction.**