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### **SDI Review Form 1.6**

Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_11129
Title of the Manuscript:	ELECTRO-GRAVITATIONAL TECHNOLOGY VIA CHRONON FIELD
Type of the Article	Article in Physics

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# PART 1: Review Comments

	Reviewer's comment: The paper is publishable in this journal if the recommended compulsory revision is met.	<b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	Provide brief definition of the basic physical concepts, <i>matter</i> , <i>energy</i> , <i>gravity</i> , <i>electricity</i> , <i>big bang</i> , <i>dark matter</i> , given in the articles listed below.	
	Reviewer's Full Comments on	
	Electro-gravitational Technology via Chronon Field	
	The basic physical concepts in the paper: matter, energy, gravity, electricity, big bang, dark matter.	
	The paper is a quantitative addition to conventional science which is a mathematical <i>description</i> of the appearances of matter (natural phenomena). The methodology is called quantitative modeling that describes natural phenomena mathematically (formerly called mathematical modeling, the change due to the introduction of qualitative modeling (formerly called dynamic modeling) [2] that <i>explains</i> how nature works in terms of natural laws, e.g., the <i>energy</i> <i>conservation law</i> as extension of the first law of thermodynamics to dark matter [4])	
	A mathematical theory is built on <i>consistent</i> basic premises	

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called axioms its concepts creations of the mind, e.g., symbols, figures, numbers, time, distance. A physical theory is a mathematical theory whose basic premises are laws of nature its physical concepts, e.g., atom, star, having referents in nature (our universe).	
Recent critique-rectification of mathematical theory and, therefore, physical theory [8], requires that, to make sense, every physical concept be defined by the natural laws upon which the theory is built. Otherwise, the theory will be saddled with ambiguity and contradiction. None of the physical concepts in the paper is defined. For example, it would have been sufficient to define <i>matter</i> by identifying what it consists of, i.e., the fundamental building block of matter, its structure and properties. At any rate, these concepts are defined in the listed references below.	
Although the paper does not qualify as a physical theory it can still be a significant contribution to traditional physics (as description of natural phenomena) and publishable if the above shortcomings are overcome. The author need not develop any theory to define concepts. He can simply quote the definitions given by the appropriate articles in the list or any other appropriate sources.	
<ol> <li>E. E. Escultura, The grand unified theory, <i>Nonlinear</i> <i>Analysis, A-Series: TMA</i>, <b>69</b>(3), 2008, (special issue) pp. 823 – 831; doi:10.1016/j.na.2008.02.043.</li> <li>E. E. Escultura, The mathematics of the grand unified theory, <i>Nonlinear Analysis, A-Series: TMA</i>, <b>71</b> (special issue), 2009, pp. e420 – e431; doi:10.1016/j.na.2009.11.003.</li> <li>E. E. Escultura, Chaos, Turbulence and Fractal: Theory</li> </ol>	

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and Applications, International Journal of Modern	
<i>Nonlinear Theory</i> (SCIRP), pp. 176–185;	
http://www.scirp.org/journal/PaperInformation.aspx?Pap	
erID=36849;	
doi: <u>10.4236/ijmnta.2013.23025</u> .	
[4] E. E. Escultura, The logic and fundamental concepts of	
the grand unified theory, special issue on Gravitation,	
Astrophysics and Cosmology, Journal of Modern	
Physics (SCIRP), pp. 215 – 223;	
http://www.scirp.org/journal/jmp/.	
[5] E. E. Escultura, "Quantum Gravity," In: E. E. Escultura,	
Ed., Scientific Natural Philosophy, Bentham EBooks,	
2011;	
http://www.benthamscience.com/ebooks/978160805178	
6/index.htm.	
[6] E. E. Escultura, "Macro Gravity", In E. E. Escultura, ed.,	
Qualitative Mathematics and Modeling: Theoretical and	
Practical Applications, LAP LAMBERT Academic	
Publishing, Saarbrücken., KG, pp. 11, pp. 147 – 156;	
http://www.barnesandnoble.com/w/qualitative-	
mathematics-and-modeling-escultura-	
edgar/1117374460?ean=9783659305849.	
[7] E. E. Escultura, "The Big Bang and What it Was", In:	
Jason R. O'Connell and Alice L. Hale, Eds., The Big	
Bang: Theory, Assumptions and Problems, Nova	
Science Publishers, 2011;	
https://www.novapublishers.com/catalog/product_info.p	
hp?products_id=21109.	
[8] E. E. Escultura, "Critique-Rectification of	
Mathematics", In: E. E. Escultura, ed., Qualitative	
Mathematics and Modeling: Theoretical and Practical	
Applications, in press, LAP LAMBERT Academic	
<i>Publishing</i> , pp. 77 – 129;	

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	http://www.barnesandnoble.com/w/qualitative- mathematics-and-modeling-escultura- edgar/1117374460?ean=9783659305849.	
Minor REVISION comments	None	
Optional/General comments	The full comments are given below	

### **Reviewer Details:**

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	GVP College of Engineering, JNT University, India