

Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_78646
Title of the Manuscript:	Entropic Information Theory: Formulae and Quantum Gravity Bit from Bit
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalpsij.com/index.php/PSIJ/editorial-policy>)

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PART 1: Review Comments

	Reviewer's comment	Author's comment (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)
Compulsory REVISION comments		
Minor REVISION comments	<p>The paper's text is too much fragmented. I suggest the following.</p> <p>Page 1: Abstract is too long. Combine the first two paragraphs into a single paragraph and remove the remaining paragraphs.</p> <p>Page 2: Replace "... the number of real ..." with "The number of real microstates corresponding to the gas's macrostate is W or Ω."</p> <p>Page 2: Replace "A macrostate being ..." with "A macrostate is a state that can be experimentally observed, with at least a finite extent in spacetime."</p> <p>Page 3: Replace "microstates appear as different ..." with "Microstates appear as different ..."</p> <p>Page 3: Replace "in 1870 by Austrian physicist Ludwig Boltzmann" with "by Boltzmann in 1870".</p> <p>Page 3: Replace "For a set of microstates, for microstate i, and $p(i)$ the probability that it occurs" with "For a set of microstates i, if $p(i)$ is the probability that the microstate occurs".</p> <p>Page 4: Replace 'Theory of Communication',[4][5]' with 'Theory of Communication'.[4][5].</p> <p>Page 4: Replace "Shannon's entropy denoted H and" with "Shannon's entropy is denoted by H and".</p> <p>Page 4: Replace "The entropy is all the greater the greater the uncertainty." with "The entropy increases as the uncertainty increases.".</p> <p>Page 4: Replace "derived from Shannon entropy formulae when all state are equally probable" with "derived from Shannon entropy formula when all states are equally probable.".</p> <p>Page 5: Add period ".": at the end of the sentence "Fundamental equation in ... charged elementary particles".</p> <p>Page 5: Replace "2.7 mass–energy equivalence" with "2.7 Mass–energy equivalence".</p> <p>Page 5: Replace "Mass–energy equivalence formula was introduced in 1900 by Poincaré in an article on Lorentz's theory and the principle of action and reaction".</p> <p>Page 6: Make a complete sentence form "Indeed, according to Bekenstein ... of matter and energy" and end it with a period ".".</p> <p>Page 6: Restructure "In (5) replace (4) and (6) ... so," to make it more understandable.</p> <p>If equation (12), known as Landauer's principle is already known, why derive it here?</p> <p>Page 9: Replace "We have: [term1] We have: [term2] We have: [term3] We obtain: [term4] (17)" with "We obtain: [appropriate equation] (17).</p>	

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	Page 11: Replace "After have passing in review" with "After passing in review".	
Optional/General comments	The paper makes too bold claims of having explained gravity in terms of information. I am unable to grasp it to accept or reject the claims. Another review by another person is recommended.	

PART 2:

	Reviewer's comment	Author's comment (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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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