

Review Form 1.6

Journal Name:	Asian Journal of Research and Reviews in Physics
Manuscript Number:	Ms_AJR2P_92403
Title of the Manuscript:	A Theoretical Study on the Information Theoretic Inequalities and Fisher-Shannon Product of a Free Particle
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.journalajr2p.com/index.php/AJR2P/editorial-policy>)

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	<p>The author (s) studied the information theoretic measures of a free particle in non-relativistic Schrodinger equation. The Shannon and Fisher information were verified. The problem solved is simple. Before the manuscript can be accepted for publication the following points should be addressed.</p> <ol style="list-style-type: none"> 1. The free particle is bounded between 0 and L why is the wave function nodeless ? The wave function is zero at the boundaries or outside the boundaries. This conditions should be used to obtain the discrete values. The waveform can be presented in Cosine and Sine to achieve it. 2. What wave function was used to obtain numericals? Is it the ground state or other? Please can you plot coordinate and momentum wave functions and obtain information theoretic measures for other quantum states say n= 2? 3. Why are the solutions in 19- 21 acceptable from their differential equations? Then show how equation 32 was obtained. 4. Could you explain why the momentum space Shannon entropy reached negative values as L increases? 	
Minor REVISION comments		
Optional/General comments		

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?	(If yes, Kindly please write down the ethical issues here in details)	

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