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Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_15391
Title of the Manuscript:	Cumulative Effects of the Temperature and Damping on the Time Dependent Entropy and Decoherence in the Caldirola-Kanai Harmonic Oscillator
Type of the Article	Original research papers

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.

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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	The work is interested, however the final fig1 to fig5 need further explaine. For example, why fig1 represents coherent state? Author needs to distinguish the meaning of decoherence and dissipation, respectively, and explain when dissipation increase with increase of decoherence, and when they are not like that.	<p>We have responded to the reviewer's queries related to fig 1 to fig 5.</p> <p>For example, Fig 1 represents the coherence state because it is identical to the one of an harmonic oscillator which is the typical example of system evolving without losing information in time and in space(coherence state).</p> <p>The dissipation is a losing of information when the system interacts with an environment. This can be occurring in classical mechanic or in quantum mechanics systems.</p> <p>Decoherence means loss of coherence. It is a quantum phenomenon where quantum interference pattern is destroyed .</p> <p>We should notice that, it can be decoherence without dissipation in high temperature. Meanwhile, dissipation cannot occur without decoherence. That means if the dissipation increase in a system, the decoherence will increase also.</p>
Minor REVISION comments	Please clarify the ethical issues if any	Authors have declared that no competing interests exist in the publication of this



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	If there are any competing interest please clarify	work.
<u>Optional/General</u> comments		