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#### SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2015_PSIJ_18414
Title of the Manuscript:	THE COMPUTATIONAL LIMIT TO QUANTUM DETERMINISM AND THE BLACK HOLE INFORMATION LOSS PARADOX
Type of the Article	Original Research Article

## **General guideline for Peer Review process:**

This journal's peer review policy states that <u>NO</u> manuscript should be rejected only on the basis of '<u>lack of Novelty'</u>, provided the manuscript is scientifically robust and technically sound.

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### **PART 1:** Review Comments

<u>Compulsory</u> REVISION comments	it seems to me that an essential point has escaped him. In quantum physics, there is always an interaction between the physical value of the system and the instrument measuring, which leads to crossed terms (entangled terms). When the initial state of the system is represented by a function of state unspecified, the linearity of Schödinger's equation has as a consequence that the	
	final state is represented by a formula which does not contain a cross term. In this case, the reasoning of the author(s) is exact. However, in the quantum theory of measurement, cross terms generally appear when one is interested in the average value of observable pertaining to the unit "system + instrument". These cross terms appear if one adopts the formalism of the Heisenberg's matrix density. It results from it that in the final state of the unit "system + instrument", the needle of the instrument does not have, in each case, a statistical position. In other words, the breakdown of determinism only based on the wave function cannot be defended here as potentially serious. Taking into account these arguments, the author(s) should at least discuss these points.	
Minor REVISION comments		
Optional/General comments		

### **Reviewer Details:**

Name:	Anonymous
Department, University & Country	University P. & M. Curie, France