



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_10312
Title of the Manuscript:	On the Problem of Reduction of the State's Vector
Type of the Article	<u>Original Research Article</u>

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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

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)
<u>Compulsory</u> REVISION comments		I express my gratitude to reviewer for grammar improvement
<u>Minor</u> REVISION comments	<p>Abstract's line 2 should be changed to: "measurement by using an example of particles registered by a measuring device (screen)".</p> <p>Line 17 should be changed to: "The behavior of any quantum system according to today's point of view is characterized [1, 2]".</p> <p>Line 20 should be changed to: "is ascribed to action of some operator denoted by R. Operator U – is a unitary one which is".</p> <p>Line 22 should contain an inverse of U on the left side of equation.</p> <p>Line 24 should be changed to: "Planck constant. There is no such expression for the R – operator. Moreover, at present time,".</p> <p>Line 27 should be changed to: "possible states of the system presented by Ψ, is tightened to one state which is fixed by".</p> <p>Line 28 should be changed to: "measuring, i.e. so called reduction of state happens. There exists a number of points of".</p>	<p>Done</p> <p>Done</p> <p>Done</p> <p>????</p> <p>Done</p> <p>Done</p> <p>Done</p>



SDI Review Form 1.6

	Line 42 should be changed to: "the microscopic particles (nucleons) time of reduction is greater than 107 years what is large".	Done
	Line 58 should be changed to: "which has a form of plane wave whose front is parallel to the screen."	Done
	Line 76 should be changed to: "A screen consists of separate atoms which are interacting with particles under".	Done
	Line 83 should be changed to: "conditions Φ obeys Schrödinger equation in potential $V(x)$ which looks like one-".	Done
	Line 89 should provide a reference or explanation for: "Generally, registration of particle with precision L/N , where $N=2s$, s is integer, needs $s + 1$ bits of information."	I have provided an explanation in a footnote
	Line 95 should be changed to: "needed to prepare initial state of the screen, i.e., Φ in a form of wave packet whose size".	Done
	Line 106 should provide a reference or derivation or explanation for the equation.	I have provided derivation for the equation
	Line 108 should be changed to: "m is mass of the registered particle. Note that according to [5] eigenstates $\Phi_n(x)$ and".	Changed
	Line 109 should be changed to: "corresponding eigenvalues E_n are".	Done
	Line 115 should be changed to: "can be calculated according to formulas (2). The result of calculation is presented in Fig. 2."	Done



SDI Review Form 1.6

	<p>Line 134 should be changed to: "particle's interference. In this experiment, particles hit a screen after going through the wall which has".</p> <p>Line 144 statement "has now two maximums instead of one" contradicts to line 142 statement "independent from one another". Explanation should be provided.</p> <p>Footnote 2 may be removed or it should be reworded.</p> <p>Paper's title may be changed to: "Problem of Reduction of the Quantum State's Vector".</p>	<p>Done</p> <p>It is not a contradiction because independency of two slots reveals as a summation of two separate actions from each slot without influence one from another</p> <p>Removed</p> <p>Renamed</p>
<u>Optional/General</u> comments		