Cornell University Library

We gratefully acknowledge support from the Simons Foundation and member institutions

arXiv.org > quant-ph > arXiv:1106.5234

Search or Article-id

(Help | Advanced search)

All papers | Go!

Quantum Physics

Localization of M-Particle Quantum Walks

Clement Ampadu

(Submitted on 26 Jun 2011)

We study the motion of M particles performing a quantum walk on the line. Under various conditions on the initial coin states for quantum walkers controlled by the Hadamard operator, we give theoretical criterion to observe the quantum walkers at an initial location with high probability.

Comments:	To the authors knowledge, this paper appears to be the first to study the localization problem for a general M-Particle quantum walk. Will submit for publication
Subjects:	**Quantum Physics (quant-ph)**; Mathematical Physics (math-ph)
MSC classes:	81T25
Cite as:	**arXiv:1106.5234** **[quant-ph]**
	(or **arXiv:1106.5234v1** **[quant-ph]** for this version)

Submission history

From: Clement Ampadu B [view email]

[v1] Sun, 26 Jun 2011 16:13:14 GMT (518kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.