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Title:	Decomposition of split-step quantum walks for simulating Majorana modes and edge states
Authors:	Goyal, S.K. (/jspui/browse?type=author&value=Goyal%2C+S.K.)
Keywords:	Quantum Walk Evolution Operator quantum
Issue Date:	2017
Publisher:	American Physical Society
Citation:	Physical Review A, 95 (5)
Abstract:	We construct a decomposition procedure for converting split-step quantum walks into ordinary quantum walks with alternating coins, and we show that this decomposition enables a feasible linear optical realization of split-step quantum walks by eliminating quantum-control requirements. As salient applications, we show how our scheme will simulate Majorana modes and edge states.
Description:	https://journals.aps.org/pra/abstract/10.1103/PhysRevA.95.052351
URI:	https://journals.aps.org/pra/abstract/10.1103/PhysRevA.95.052351 (https://journals.aps.org/pra/abstract/10.1103/PhysRevA.95.052351) http://hdl.handle.net/123456789/2482 (http://hdl.handle.net/123456789/2482)
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