# The propagator for the step potential using the path decomposition expansion

#### James M. Yearsley

(Submitted on 22 Jan 2009)

We present a direct path integral derivation of the propagator in the presence of a step potential. The derivation makes use of the Path Decomposition Expansion (PDX), and also of the definition of the propagator as a limit of lattice paths.

Comments:To appear in DICE 2008 conference proceedingsSubjects:Quantum Physics (quant-ph)Cite as:arXiv:0901.3454v1 [quant-ph]

## **Submission history**

From: James Yearsley [view email] [v1] Thu, 22 Jan 2009 10:49:17 GMT (26kb,D)

Which authors of this paper are endorsers?

# Download:

- PDF
- Other formats

Current browse context:

quant-ph

< prev | next >

new | recent | 0901

### **References & Citations**

- SLAC-SPIRES HEP (refers to | cited by)
   CiteBase
- Bookmark(what is this?)

  CiteULike logo

  Connotea logo

  BibSonomy logo

  Mendeley logo

  Facebook logo

  Categories

  Adel.icio.us logo

  Categories

  Categ

Link back to: arXiv, form interface, contact.