JUSTAGE		My J-STAGE Sign In
The Kyoto Economic Review	Gr: Kyo	aduate School of Economics, oto University
Available Issues Japanese	>>	Publisher Site
Author: ADVANCED Volume Page Keyword: Search Image		Go
Add to Favorite / Citation Add to Articles Alerts Add to Publications Alerts	ister ts	? My J-STAGE HELP
<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > Abstract		

ONLINE ISSN : 1349-6778 PRINT ISSN : 1349-6786

The Kyoto Economic Review Vol. 74 (2005), No. 1 pp.1-23

[PDF (117K)] [References]

Pricing Path-Dependent Options with Jump Risk via Laplace Transforms

Steven Kou¹⁾, Giovanni Petrella²⁾ and Hui Wang³⁾

- 1) Department of IEOR, Columbia University
- 2) Department of IEOR, Columbia University
- 3) Divison of Applied Mathematics, Brown University

Abstract: We present analytical solutions for two-dimensional Laplace transforms of barrier option prices, as well as an approximation based on Laplace transforms for the prices of finite-time horizon American options, under a double exponential jump diffusion model. Our numerical results indicate that the method is fast, accurate, and easy to implement without requiring high precision calculations in Laplace inversion.

Keywords: jump diffusion; American options; barrier and lookback options

[PDF (117K)] [References]

Download Meta of Article[<u>Help</u>] <u>RIS</u> <u>BibTeX</u>

To cite this article:

Steven Kou, Giovanni Petrella and Hui Wang; "Pricing Path-Dependent Options with Jump Risk via Laplace Transforms", *The Kyoto Economic Review*, Vol. **74**, pp.1-23 (2005).

JOI JST.JSTAGE/ker/74.1

Copyright (c) 2005 by Graduate School of Economics, Kyoto University





Japan Science and Technology Information Aggregator, Electronic

