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A New Approach to Pricing Double-Barrier Options with Arbitrary Payoffs and Exponential Boundaries

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Pages 497-515 | Received 15 May 2008, Accepted 12 Dec 2008, Published online: 06 Nov 2009

 Cite this article  <https://doi.org/10.1080/13504860903075480>

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Abstract

We consider in this article the arbitrage free pricing of double knock-out barrier options with payoffs that are arbitrary functions of the underlying asset, where we allow exponentially time-varying barrier levels in an otherwise standard Black-Scholes model. Our approach, reminiscent of the method of images of electromagnetics, considerably simplifies the pricing of such options.

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Key Words

parity relations of double-barrier options

Notes

¹Where single flat barriers were treated.

²Where the flat double-barrier case is treated.

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