

Shortfall Risk Approximations for American Options in the multidimensional Black--Scholes Model

Yan Dolinsky

(Submitted on 8 Apr 2010)

We show that shortfall risks of American options in a sequence of multinomial approximations of the multidimensional Black--Scholes (BS) market converge to the corresponding quantities for similar American options in the multidimensional BS market with path dependent payoffs. In comparison to previous papers we consider the multi assets case for which we use the weak convergence approach.

Subjects: **Computational Finance (q-fin.CP)**; Probability (math.PR); Pricing of Securities (q-fin.PR)

Cite as: [arXiv:1004.1574v1](#) [q-fin.CP]

Submission history

From: Yan Dolinsky [[view email](#)]

[v1] Thu, 8 Apr 2010 10:30:35 GMT (15kb)

[Which authors of this paper are endorsers?](#)

Link back to: [arXiv](#), [form interface](#), [contact](#).

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

q-fin.CP

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1004](#)

Change to browse by:

[math](#)

[math.PR](#)

[q-fin](#)

[q-fin.PR](#)

References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))

