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variation and applications to options on variance. Working paper. Retrieved from http://arxiv.org/abs/1103.2310).

Q Key Words: Discrete variance swap Heston model Hull-White model Schöbel-Zhu mode

View correction statement:

Erratum

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Notes

- 1. ¹ See, for example, Howison, Rafailidis, and Rasmussenn (2004), Windcliff, Forsyth, and Vetzal (2006), Benth, Groth, and Kufakunesu (2007) and Broadie and Jain (2008b).
- 2. ² These conditions ensure that we can apply Fubini's theorem to exchange the order of integration. They are easily verified in specific examples.

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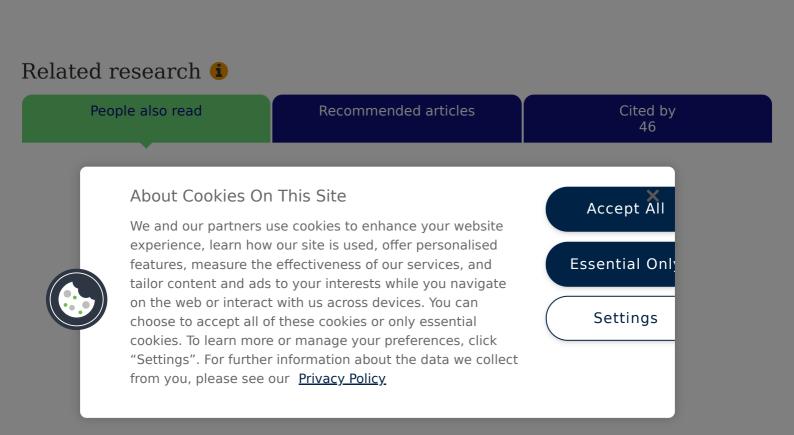
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4. ⁴ The

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well as for all other formulas that appear in this paper.

- 6. ⁶ We shall note that here $m(V_t) = V_t$ (where $m(\cdot)$ is defined in (1)) instead of , thus the process V_t models the volatility and not the variance. In particular, in the Schöbel–Zhu model, the variance process follows .
- 7. ⁷ See Proposition 6.7 for an explicit expansion.
- 8. ⁸ See Definition 2.6 on p. 112 of Keller-Ressel and Muhle-Karbe (in press).
- 9. ⁹ This can be easily seen from the fact that for all , , and note that here .
- $10.\ ^{10}$ It reduces to studying the sign of . It is an increasing function of , so it is larger than , which is always positive because its minimum is 0 obtained when .
- $11.\ ^{11}$ For the two sets of parameters above, we compute the critical interest rate as defined in Remark 2.1. Set 1: ; Set 2: , and we can see that the interest rates are both larger than .
- 12. 12 The notation V_t in the Schöbel–Zhu model corresponds to the square root of what is denoted by V_t in the Heston model.
- 13. 13 Note that in terms of our notation, the parameters in Hurd and Kuznetsov (2008) and our parameters have the correspondence , , .
- 14. 14 Note that is a decreasing function in t, thus is sufficient for for all i=0, 1, ..., n.



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