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A Semi-Explicit Approach to Canary Swaptions in HJM One-Factor Model

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Abstract

Leveraging the explicit formula for European swaptions and coupon-bond options in the

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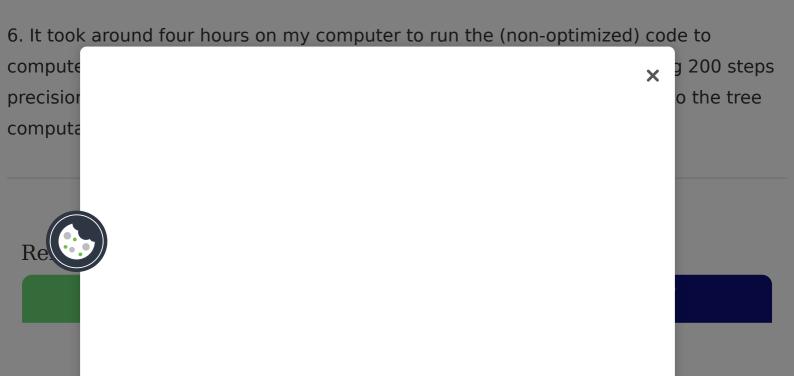
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Acknowledgments

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Notes

- 1. Bounded is too strong for the proof we use, some L ¹ and L ² conditions are enough, but as all the examples we present are bounded, we use this condition for simplicity.
- 2. See Hunt and Kennedy (2000) for the definition of a numeraire pair. Note that here we require that the bonds of all maturities are martingales for the numeraire pair (N, N).
- 3. Matlab code available from the author.
- 4. There is nothing special about that date, except it is my sister's birthday!
- 5. As the second step is shorter (6m), the distance between points is also smaller and more than 4n+1 final points are used.



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