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## Original Articles

## 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 HJM one-fartar madal a comi_avnlirit fnrmula fnr J_Rarmudan antinnclalen called Canary $\quad$ We Care About Your Privacy times. S We and our 845 partners store and/or access information on a device, such as unique IDs in cookies to process personal data. You may accept or manage your choices by clicking below, including your right to object where legitimate interest is used, or at any time in the privacy policy page. These choices will be signaled to our partners and will not affect browsing data. Privacy Policy.


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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 , $\mathrm{N})$.
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 ( 6 m ), the distance between points is also smaller and more than $4 n+1$ final points are used.
6. It took around four hours on my computer to run the (non-optimized) code to


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