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tr_blackkarasinski1d_zcbond

Black-Karasinski models [1] are defined by an EDS which describes the evolution of the spot rate r(t):

$$\begin{cases} d \ln r_t = (\theta_t - a \ln r_t) dt + \sigma dW(t), & r(0) = r_0 \end{cases}$$

Where the function θ is a deterministic function totally given by the market values of the zero coupon bonds.

The pricing procedure [?] is in two steps: in the first step built the short-rate tree that fit yield curve data, the second step is standard backward pricing algorithm.

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References

[1] F.Black and P.Karasinski. Bond and option pricing when short rates are lognormal. *Financial Analyst Journal*, Juli-August:52–59, 1991. 1