A probabilistic form of my war-time pattern-for-match of the risk-free rate

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#### Abstract

In this paper, I describe a probabilistic form of my war-time pattern-for-match of the risk-free rate.

The paper ends with "The End"

### Introduction

In a previous paper, I've described my war-time pattern-for-match of the risk-free rate. In this paper, I describe a probabilistic form of my war-time pattern-for-match of the risk-free rate.

## A probabilistic form of my war-time pattern-for-match of the risk-free rate

Solving my war-time pattern-for-match of the risk-free rate for  $r_e$  gives

$$r_e = r_f + \frac{r_f}{a(1+r_f)} - \frac{br_f + c}{a}$$

We model the variables as follows:

$$r_e = LN[\theta, \phi]$$

$$r_f = LN[\Theta, \Phi]$$

$$r_a = N[\mu, \sigma]$$

$$r_b = N[\nu, \tau]$$

$$r_c = N[\omega, \upsilon]$$

which gives the equation

$$\left( \left\{ \begin{array}{ccc} & \frac{e^{-\frac{(\log(x)-\theta)^2}{2\phi^2}}}{\sqrt{2\pi}x\phi} & x > 0 \\ 0 & x \leq 0 \end{array} \right) + \frac{\sigma e^{\frac{1}{2}\left(\frac{(x-\mu)^2}{\sigma^2} - \frac{(x-\omega)^2}{v^2}\right)}}{v} = \left( \left\{ \begin{array}{ccc} & \frac{e^{-\frac{(\log(x)-\Theta)^2}{2\phi^2}}}{\sqrt{2\pi}x\Phi} & x > 0 \\ 0 & x \leq 0 \end{array} \right) \left( \sigma e^{\frac{(x-\mu)^2}{2\sigma^2}} \left( \frac{\sqrt{2\pi}}{\left(\frac{e^{-\frac{(\log(x)-\Theta)^2}{2\phi^2}}}{\sqrt{2\pi}x\Phi} & x > 0 \\ 0 & x \leq 0 \end{array} \right) + 1 \right) + 1 \right)$$

# Solutions to the probabilistic form of my war-time pattern-for-match of the risk-free rate

There exist at least 2 solutions to the probabilistic form of my war-time pattern-for-match of the risk-free rate, available upon request.

### The End