

Diplomacy 101 : Time of treaty and time of avoidance of defeat

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Abstract

In this paper on diplomacy, I describe time of treaty and time of avoidance of defeat.
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.
Using a linear polynomial for r_f and r_e gives us the **time of treaty** and **time of avoidance of defeat**.
In this paper on diplomacy, I describe time of treaty and time of avoidance of defeat.

Time of treaty and time of avoidance of defeat

Putting

$$r_f(t) = f_0 + f_1 t$$

and

$$r_e(t) = e_0 + e_1 t$$

and solving for t gives us
the **time of treaty**

$$t_T = \frac{-\sqrt{(f_1(2f_0(b-a) + ae_0 - a + b + c - 1) + ae_1(f_0 + 1))^2 - 4f_1(f_1(b-a) + ae_1)(f_0(f_0(b-a) - a + b + c - 1) + ae_0(f_0 + 1) + c)} + f_1(2f_0(b-a) + ae_0 - a + b + c - 1) + ae_1(f_0 + 1)}{2f_1(f_1(a-b) - ae_1)}$$

and
the **time of avoidance of defeat**

$$t_{AoD} = \frac{\sqrt{(f_1(2f_0(b-a) + ae_0 - a + b + c - 1) + ae_1(f_0 + 1))^2 - 4f_1(f_1(b-a) + ae_1)(f_0(f_0(b-a) - a + b + c - 1) + ae_0(f_0 + 1) + c)} + f_1(2f_0(b-a) + ae_0 - a + b + c - 1) + ae_1(f_0 + 1)}{2f_1(f_1(a-b) - ae_1)}$$

The End