We thus know the price of the security now. Now recall the price of a caplet with Backelier's formula; CPI Bach (+, To, T1) = SP(+, T1) & Buch To-E (DECD)+ \$(D) with D= F(+,To,Tz)-K If the caplet is ATM, i.e F(+, To, T_2)=K, thir simplifies to CABach (+, To, Ty) = SP(+, Ty) of ach JTo-t (0) Plugging He price are found for Cpr Rack and Solving for Back gives: $O_{Bach} = \frac{0.13049347392014823}{1.e^{-0.03.5} \sqrt{4}} = 0.01900259327048945}$