

Rho Behavior

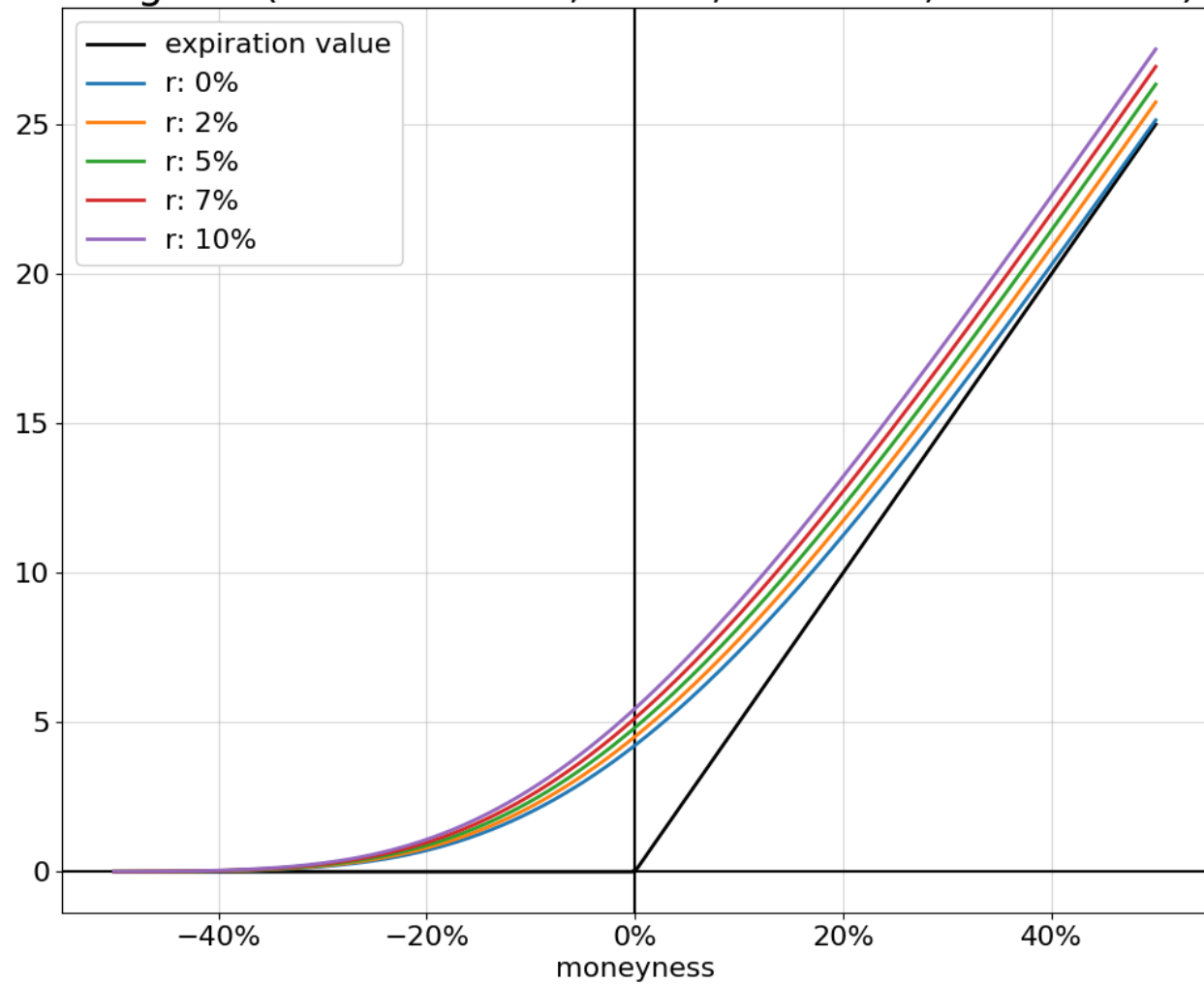
Pedro Giraldi

Rho

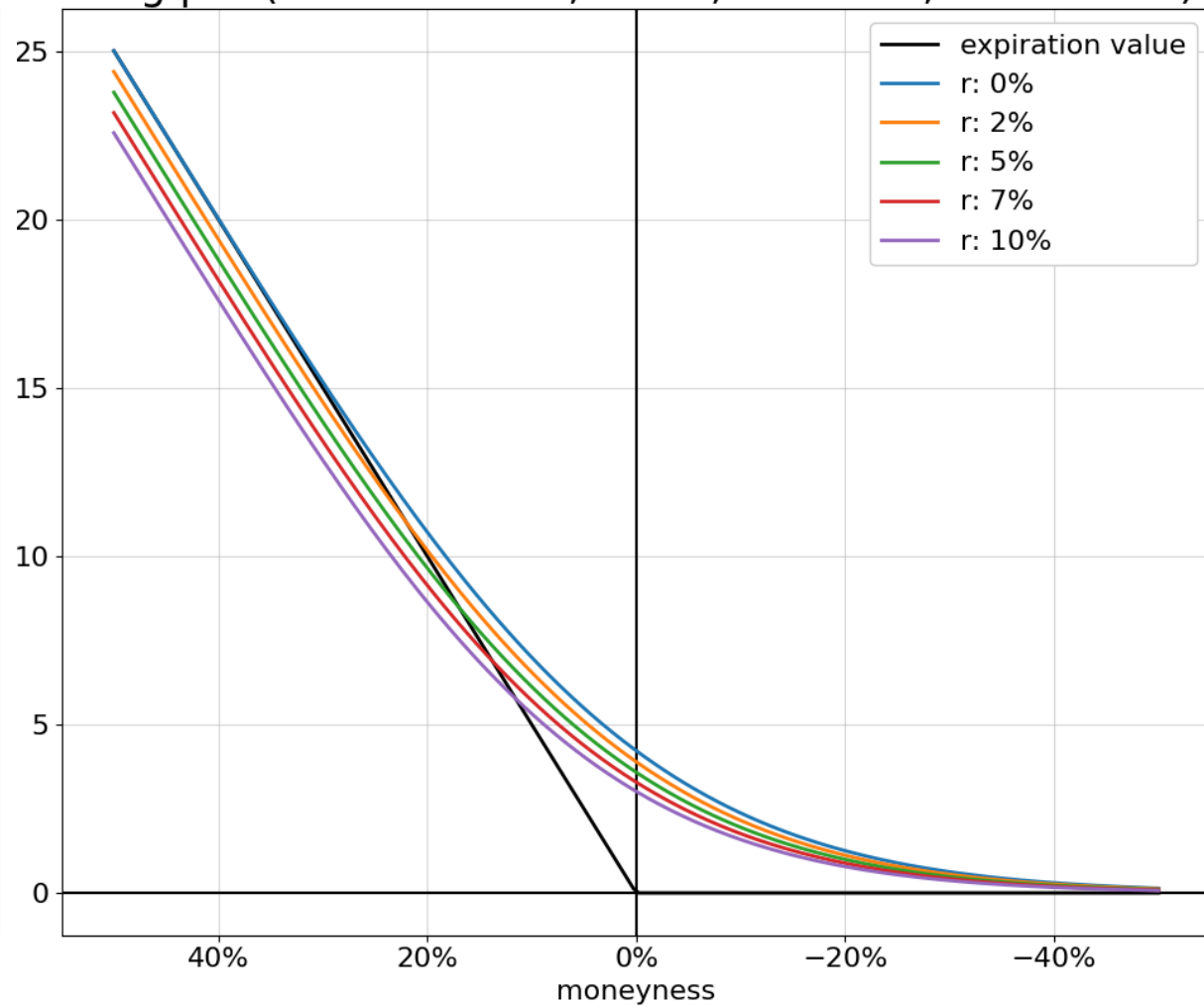
$$\rho_{call} = \frac{dC}{dt} = \frac{tKe^{-rt}}{(1+r)} N(d_2)$$

$$\rho_{put} = \frac{dP}{dt} = \frac{tKe^{-rt}}{(1+r)} (N(d_2) - 1)$$

long call (t=6.0 months, K=50, r=10.0%, vol=30.0%)



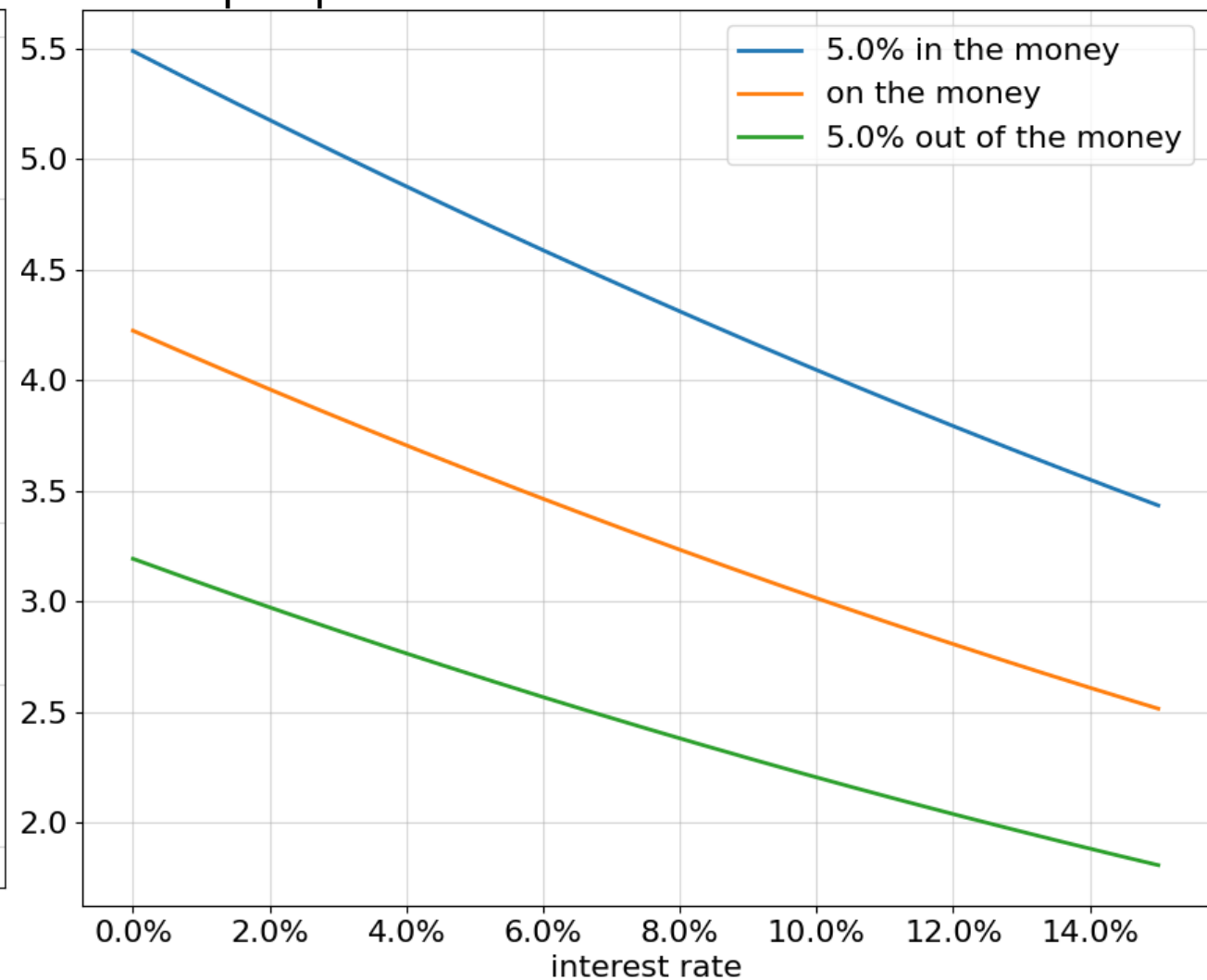
long put (t=6.0 months, K=50, r=10.0%, vol=30.0%)



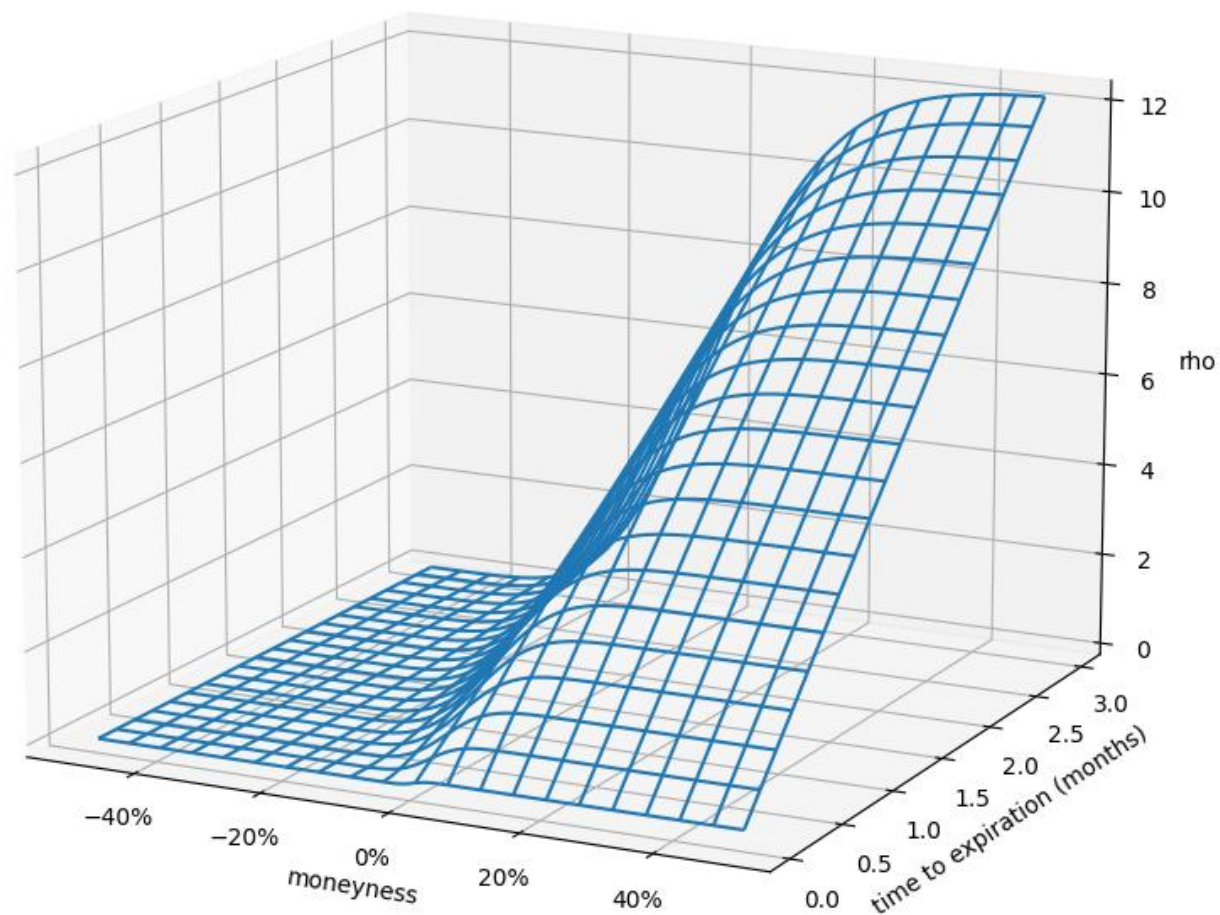
call price accross interest rate levels



put price accross interest rate levels



call rho for $r = 10.0\%$, $\text{vol} = 30.0\%$



put rho for $r = 10.0\%$, $\text{vol} = 30.0\%$

