Market Tightness and Trading Probabilities

Pascal Michaillat https://pascalmichaillat.org/c2/

matching function m M = m(S, B)# trades in a period S # De llers B # buyers Trading probabilities . J - probability to pell g= M/S . q = probability to bury q = M/BSelling probability & CRS $J = \frac{M}{S} = \frac{m(S, B)}{S} = m\left(\frac{S}{S}, \frac{B}{S}\right)$ $J = m\left(\frac{1}{S}, \frac{B}{S}\right)$ Market tightness $\Theta = \frac{B}{5}$ $\theta = V/u$ Laba market

 $f(\Theta) = m(\Lambda, \Theta)$ selling proba only depends on tightmess - selling proba. is increasing in Fightment - selling proba concave in rightness - f (0) - O no drance of selling when Vightmess is zero $m(S,B) \in min(S,B)$ $f=m(s, B)/5 \leq mim(s, B)/5 \leq 1$ Buying probability $q = \frac{M}{B} = \frac{m(s, B)}{B} = \frac{m(s, B)}{B} = \frac{m(s, B)}{B} = \frac{m(s, B)}{B}$ buying probability may depends mightness buying proba is decreasing in Tightness 9'(6)20

q (+ e) = 0 probability to buy is 0 uben tightness is i'mfruite Relation b/w buying and pelling proba $f(\theta) = m(1, \theta) = \theta m(\frac{1}{\theta}, 1) = \theta$ 9(6) L> $f(\theta) = 0$ $q(\theta)$ $f(\theta)/q(\theta) = 0$