## **Cobb-Douglas Matching Function**

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

M- # trades S = # ocllers B = # bu yers  $M = \omega$  S. B -m(0,b)-m(5,0)=0Constant returns to scale  $m(\lambda S, \lambda B) = \omega \cdot (\lambda S) \mathcal{M} (\lambda B)^{1-n}$   $= \omega \lambda \lambda \lambda^{1-n} S \mathcal{M} B^{1-n}$  $m(\lambda S, \lambda B) = \lambda m(S, B)$ Cobb- Douglas function can be calibrated matching efficacy

matching elasticity (exponent on 4 of pellers

I trading probabalities are somple.  $f(\theta) = \text{solving proba} = \frac{M}{S} = W S^{n-1} B$  $\frac{1}{3}(6) = \omega \left(\frac{B}{3}\right)^{1-\eta}$  $q(\theta)$  = buy they probe =  $M = \omega S B$   $q(\theta)$  =  $\omega (S)^{M}$  $9(0) - W \cdot \theta^{-2}$ 2. Cobb Donglas is realibric matching function (Petrongolo & Pikparides 2001) 05 < n 4 0 7 - calibrate