## **Properties of the Matching Function**

Pascal Michaillat https://www.pascalmichaillat.org/t5.html

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m matching function # sellers

M = m (S, B) # buyers # of matches/trades in a given period Example. labor market . M = # of hines . 5 = # unemployed workers · B = # vacant jobs Assumptions about m  $\frac{\partial m}{\partial s} > 0 , \frac{\partial m}{\partial b} > 0$ • m(0, B) = m(S, 0) = 0 $\begin{array}{c|c}
 & \frac{\partial^2 m}{\partial S^2} & \angle O & \frac{\partial^2 m}{\partial B^2} & \angle O \\
\end{array}$ · m has constant returns vo scale  $m(\lambda S, \lambda B) = \lambda .m(S, B)$ · discrete time M = # made within time penal  $m(S,B) \leq min(S,B)$ continuous time M = flow of trades
(no restructions)