model primitives discrete time n workers (5) t=1,2,... 00 L firms (B), perfect Competition
L middlemenin, websit sompetiation
Local monopolists T: retention rate: 0 < τ < 1 β: descarat foctor: 0 < β < 1 - workers are of identical Production its & represation utility

E;(W;) differ due to information asymmetry objective functions workers:

max U(F; - \(\frac{t}{2}\) It Btw: r)) ; u() >0, ul)<0 employers (aggregated)

It is reservations utility

employers (aggregated)  $T_{t}(S) = f(S) - W \cdot S - (1-t) \alpha \cdot S t - 1$ S

a is agency fee · denate Wi= wi-r midellemen (oggregates) max TIM(S)=(F;+a)(1-T) St-1 fel determination & worker recultment i) Fi = U(\(\int \tag{E} \tag{F}(Wi)) , where \$\(\mathbe{E}(wi)\) is Cof of E;(Wi) middlemus recruits  $(1-t)S_{t+1}$  worker  $S_{t-1}$ .  $(1-t)S_{t-1} = S_{E(lu_i)}^{\infty} S_{t}(x)$ (i) Wage lattery:
- H; (W) is C of wages
- worker occepts if W; > 0
- where E(W) = 500 W. d H(W)

returning Worker differences Denote workers who have already be hered 5°. O. (W) is cof of E(Wi) for 8° •  $\phi(w_i) \leq g(w_i)$ - productivity is higher for 5° W  $\frac{\partial f}{\partial s} > \frac{\partial f}{\partial s}$ model dynamics t=0 employers at eq. 11.(s) = 0 middlemen & workers iractive · emptoyer losse (1-T)So workers request (I-I) So from N · Middlemen finds (1-T) So Workers Set F; from most profitable (1-T) So , (1-T) So re-enter anemployed babor pool. employers lose (1-T) SI Workers · refuest (I-T)S, workers from M. M. finds (I-T)S; workers p. f. 10 · Set F; from mast profitable (1-I)S, · (1-I) S. rei-enter unemployed pool t=n
repeate t:1.

2