Monsteable Mility Part 2 10/16
Defn! Say y is stable relative to
12 TO if there exists (w, w) s.t.

1 matching y is stable relative to 2) There are you (w; w') and (t, b) such that: w'(t,b) > w(t, 4(t)) and W'(t, b) > W (Mt(b), 5) Torma y is stable relative to transferable retility emment iff there are transfers functions (w, w) such that: (1) y is istable relative to (E, "w,w) 2 There is no (t, s) such that u(t,b) + v(t,5) > w(t, 4(t)) + w(5, 4(3)) Ihm I Fix a tremsferable retility emmonment and an associated match. Uf I is stable in that emismont, then I maximus welfare in that environment. Spm 2 Shapley - Shubih 1971 For each TU environment, there is a matching of that is a stable for that environment

Frank to the fact of the same	
Proof of Theorem 1	
The state of the s	
Fix some in that is stable for this	
environment. ETO There exists some	
transfer funotions such that:	
OH is IR in (ET, w, w)	
$\forall t \ \bar{\omega}(t, \mathcal{H}_{t}(t)) \geq u(t, \delta)$	
$\forall b \omega (y, (b), b) \geq v(\phi, b)$	
$\begin{array}{cccc} \forall t & \bar{w}(t, \mathcal{H}_{t}(t)) \geq u(t, \beta) \\ \forall b & \underline{w}(\mathcal{H}_{t}(b), b) \geq v(\beta, b) \\ \text{2 For all } t \text{ and } b \end{array}$	
$2(t,b) + v(t,b) \leq \overline{w}(t,y_{t}(t))$	
+ 6 (4(6), 6)	
The state of the s	
Fire come other match fi: will	
show W(G) & W(M) ten(FINT	
The said of the sa	
$W(\hat{\mathbf{y}}) = \sum [u(t, \hat{\mathbf{y}}(t)) + v(t, \hat{\mathbf{y}}(t))]$	
1+2 u(t,0) + 2 v(q,5)	
$te \tau M(\theta)$	-/
apply di -apply	
$\leq \leq [\overline{w}(t, \mu_t(t)) + w(\mu(\mu(t)), \mu(t))]$	
$= 2[\overline{\omega}(t, \mu_{\ell}(t)) + \omega(\mu(\widetilde{\mu}(t)), \widetilde{\mu}(t))] + 2\overline{\omega}(t, \mu_{\ell}(t) + 2\omega(\mu_{\ell}(t), b))$	
= W(H)	
Notice: be BAM(A) iff It & T(M(A)	
+ $\mathbb{Z}\overline{w}(t, \mathcal{H}_{\epsilon}(t) + \mathbb{Z}\underline{w}(\mathcal{H}_{\epsilon}(t), b) \longrightarrow$ = $W(\mathcal{H})$ (Notice: $b \in \mathcal{B} \cap \mathcal{M}(\mathcal{G})$ iff $\exists t \in \mathcal{T} \cap \mathcal{M}(\mathcal{G})$	_
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Oc, cin Et, stability will marringe welfare you us To sum up: The cinability to turnsfu wealth is a market frithin that appears as a cost to the market. What is cost of this friction? Clemple No Cesto Let preferences be assortative. To and Bo serve as compliments to total utility. T= {ti,..., tn? B= {bis..., b } } for each ti bi bi to bits j=1,...,n-1 fu each bj: tiz tir [=1,..., N-1 NTU environment with Market fuitions, we have seen unique stable match Will match each p(ti) = 6; (Nas questire assitutive match)

