ecture 5 19 Sept. 07

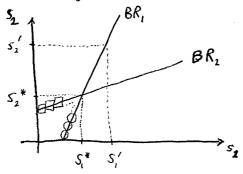
Last time - Nash Equilibrium

Defn A strategy profile (sit, st., s,) is a NE if, for each i, her choice si is a best response to the other players' choices si

Motivations (1) no regrets

no individual can do strictly better by deviating holding others fixed

(2) self-fulfilling beliefs



2

		l	С	1
	U	0,41	(4) , o	5,3
1	M	0,(4)	0,4	5,3
	D	3,5	3,5	66

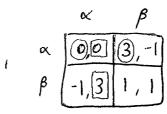
 $BR_1(\ell) = M$ $BR_2(U) = \emptyset$ $BR_1(c) = U BR_2(M) = C$ B k'(x) = DBR, (0) = 1

NE = (D, r) 2 ,[3] NE=(M,c) (3), [2]0,0 (8) 0,3 0 1,0

< Concepts: Dominance

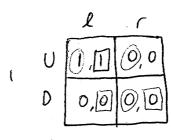
Best Response Nash Equilibria

Relate NE to Dominance



Strictly dominated by X NE is (ox, x)

2



(U, l) is a NE. but so is (D,r)

Investment Game

players - you

strategy sets invest 0 or

invest \$10 payoffs -

if do not invest, then -> 0 invest \$10, -> \$5 net profit
if >9c
invest

NE = Sall invest Ino-one invest

(guess) and check "Converged")

> « different social problem than that of prisoners dilemna

[Coordination - communication can help NE can be self enforcing agreements

Open Yale courses