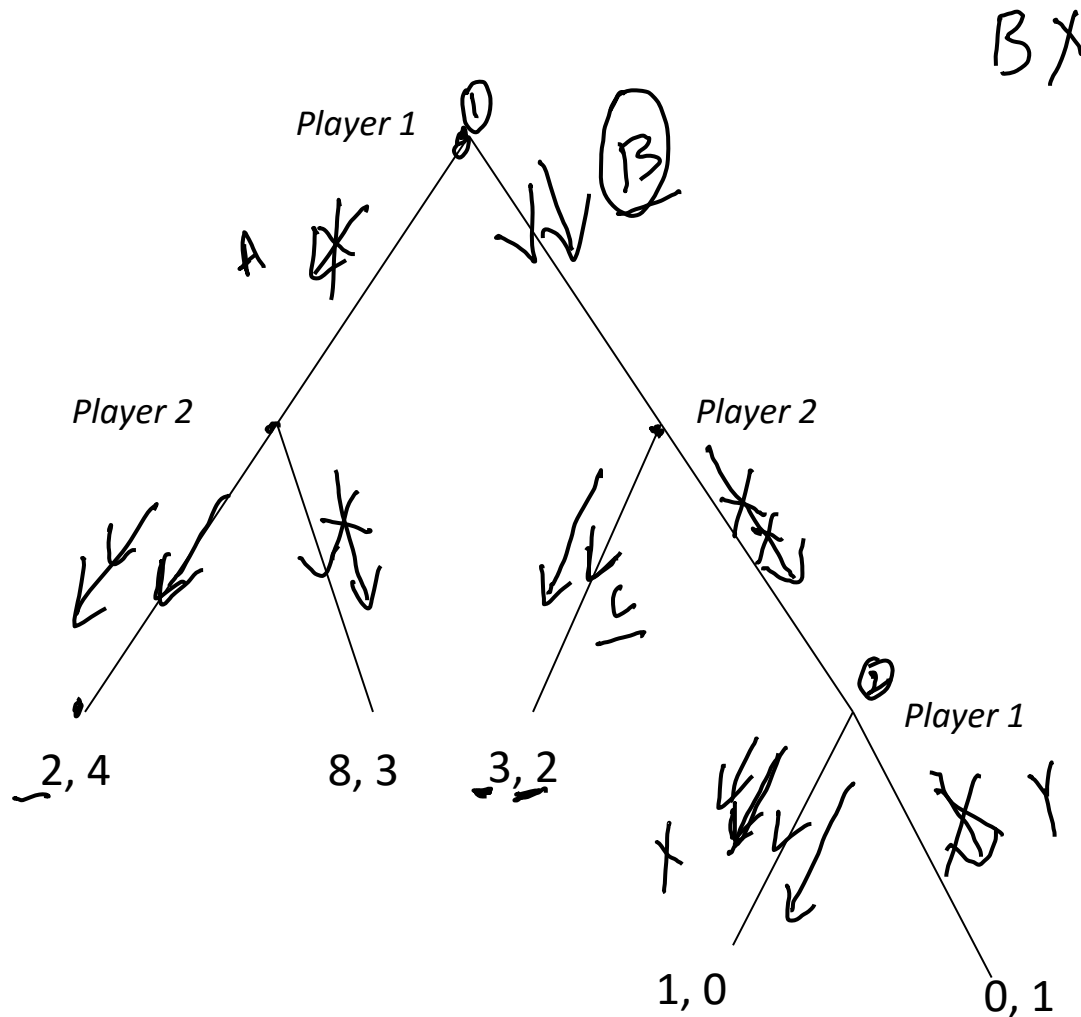


Sub Game Perfect Equilibrium

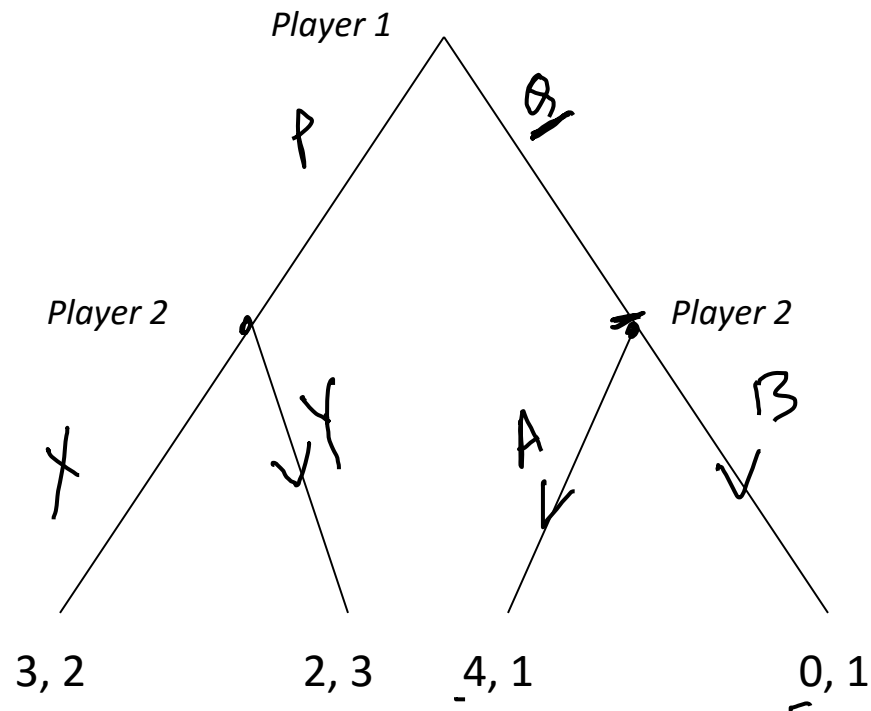
Dr. Vimal Kumar, Assistant Professor of
Economics

Indian Institute of Technology Kanpur,
vimalk@gmail.com

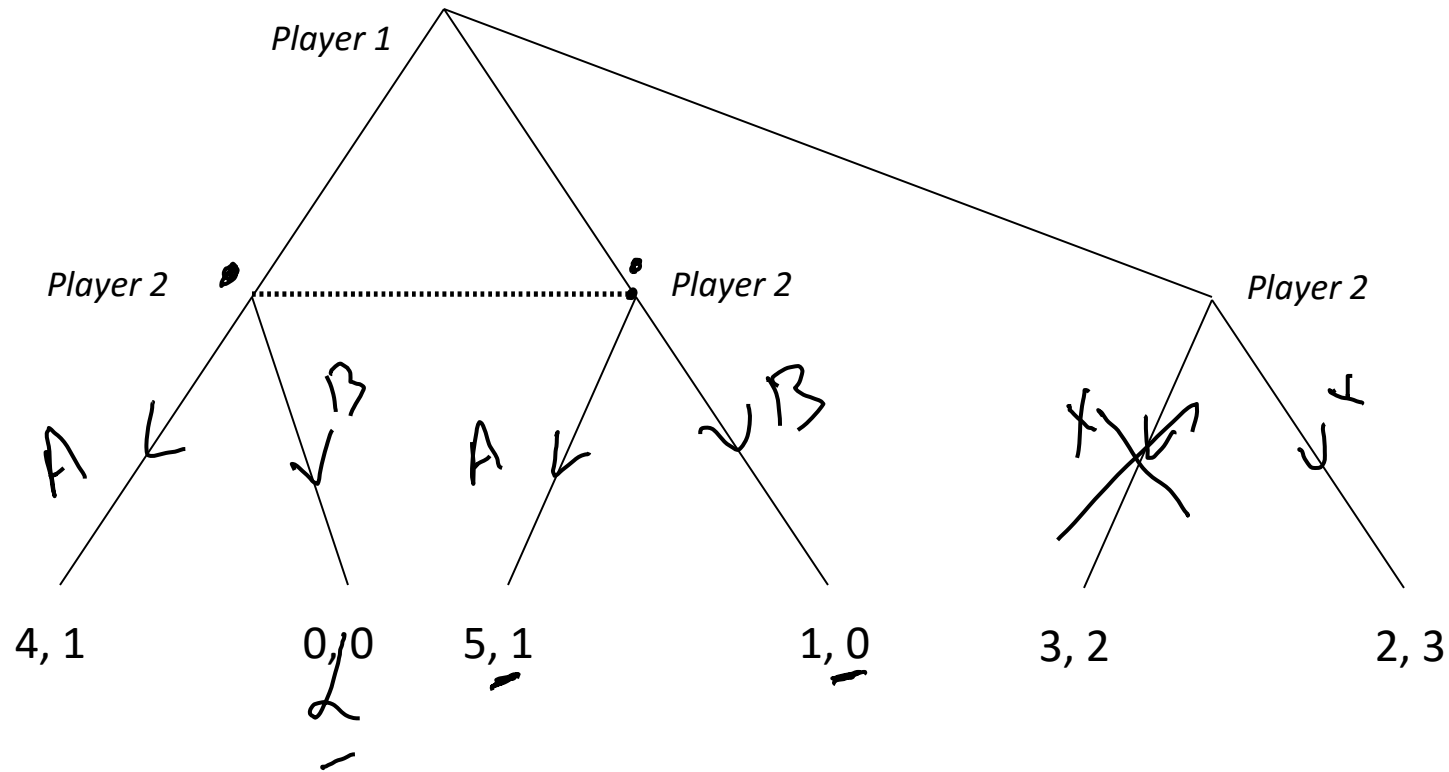
Recap: Backward induction



A limitation of backward induction

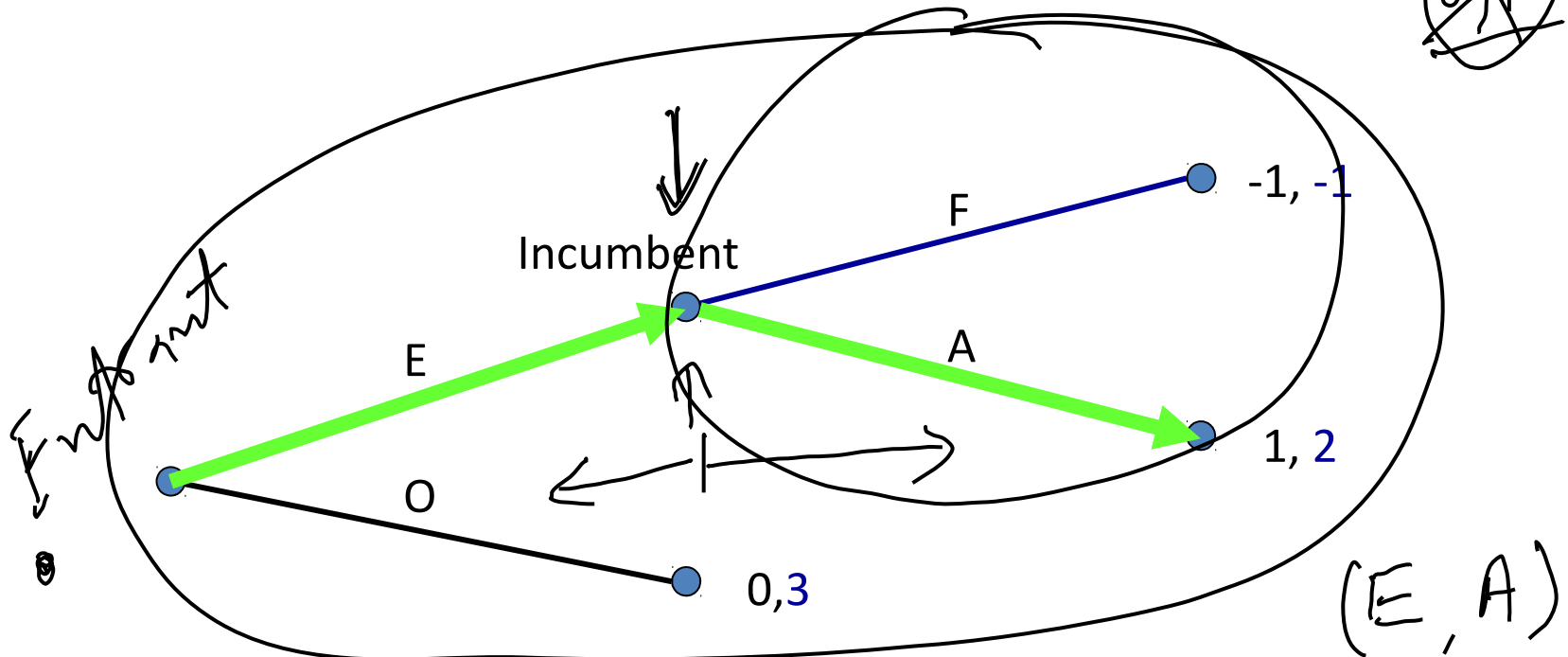


Another Limitation of Backward Induction

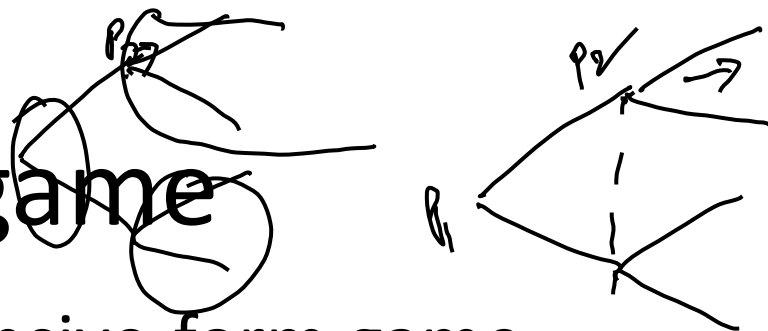


Problem with Nash Equilibrium

Entrant\Incumbent	F	A
E	-1,-1	1,2
O	0,3	0,3



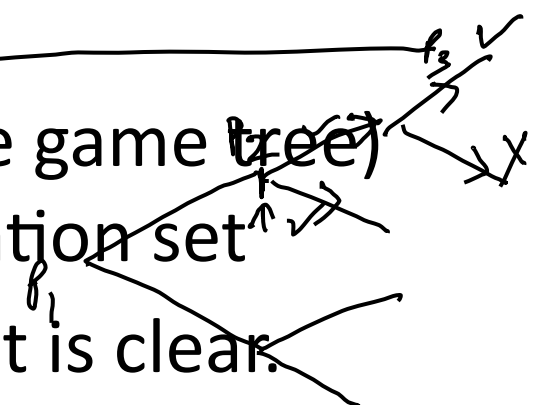
Subgame



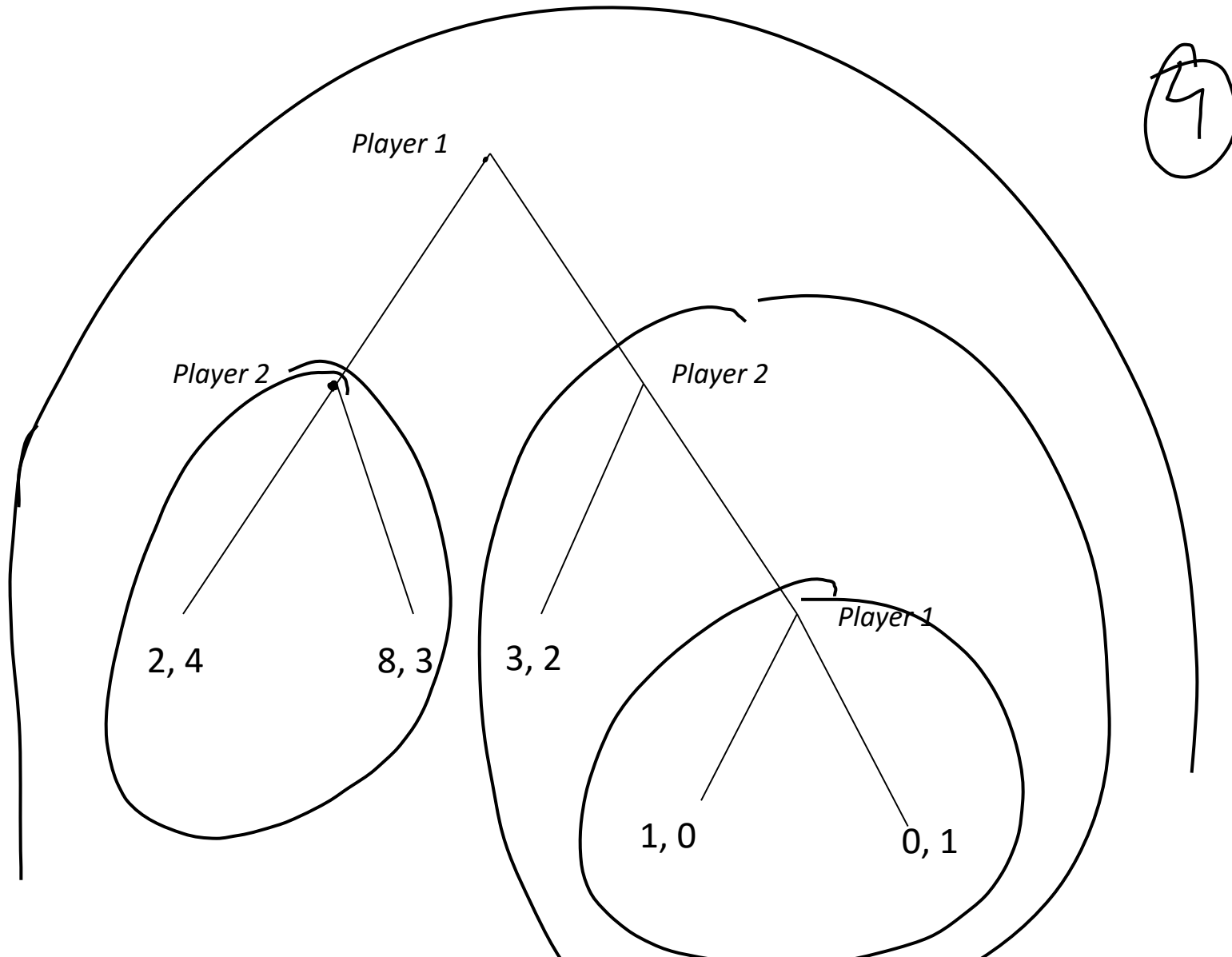
- A subgame in an extensive-form game
 - ✓ – begins at some decision node, say A , with a singleton information set
 - ✓ – includes all the successor nodes [decision and terminal nodes] of A
 - ✓ – If includes one node from an information set, then includes all the nodes of that information set.

• ~~Proper subgame = subtree (of the game tree) whose root is alone in its information set~~

• Notion of movement: whenever it is clear.



Example



Another Example

