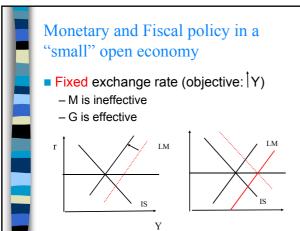
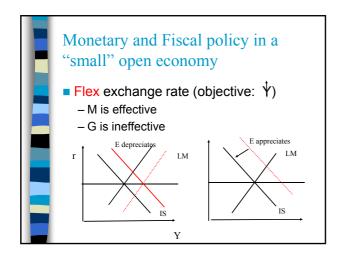
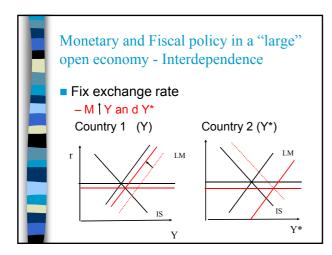
Interdependence and International Policy coordination Lecture 4 **LIUC 2011**

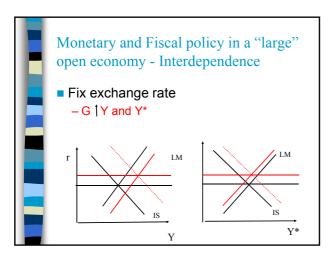
Is policy coordination desirable?

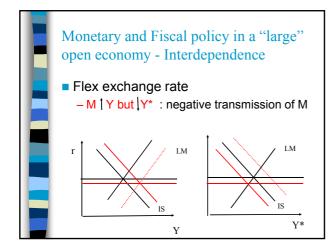
- Interactions between governments acting independenty can give suboptimal outcomes because of the spillover effects of a country's policy on other countries.
- Let's prove this statement by steps

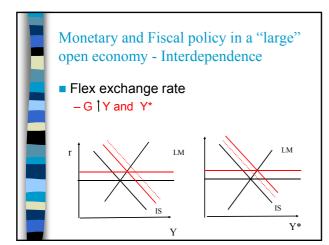












Monetary and Fiscal policy in a "large" open economy - Interdependence

Fixed exchange rate

Monetary and fiscal policy are transmitted positively to the foreign country

Capital immobility does tend to weaken the spill-over effects of the mp relative to fp

Flexible exchange rate

Fiscal policy is trasmitted positively

Monetary polity is trasmitted negatively

With capital immobility no negative spill-over effects of mp

Interaction and game theory Recognition by gov of interdependence can lead to strategic behaviour in setting economic policies as each country considers the effects of own policy on other countries Prisoners' Dilemma Player 1's strategies Confess Do not confess Payoff player 1 Payoff player 1 Payoff player 1 Payoff player 2 Payoff player 2

An application of game theory (Hamada's Diagram) • $L_i = y_i^2 + \pi_i^2$ $i = 1, 2, y_i = Y_i - \bar{Y}, \pi_i = \Pi_i - \bar{\Pi}$ • $\pi = \frac{1}{2}$ ($m_1 + m_2$) • $y_i = \gamma m_i - \mu$ • $L_i = (\gamma m_i - \mu)^2 + \frac{1}{4}$ ($m_1 + m_2$)²

