Lecture 19

Chapter 19: Open Economy Macro: Flexible Exchange Rates

- Supply and demand for a currency
- Effects on supply and demand for a currency: PPP and relative interest rates
- Effects of exchange rates on the economy: GDP, inflation, current account (J curve)
- AS/AD model with flexible exchange rates

- $\bullet \ e = lc/\$$ —how much local currency one dollar can buy
- e increasing is a depreciation of lc, appreciation of \$.
- \bullet e decreasing is an appreciation of lc, depreciation of \$.
- Japan = 106.0 //3.6
- Euroland = 0.91 0.86
- England = 0.80 0.76

AS/AD MODEL WITH FLEXIBLE EX-CHANGE RATES

- $Y_d \equiv Y T$ Definition
- $C = a + bY_d$ Behavioral (households)
- $I = d e \cdot r$ Behavioral (firms)
- Y = C + I + G + EX IM Equilibrium condition
- TAX = tY Behavioral (government)
- $T \equiv TAX TR$ Definition
- $P = \delta + \epsilon Y + \zeta PM$ Behavioral (AS curve, firms)
- $r = \alpha Y + \beta P + \gamma Z$ Behavioral (Fed rule)

- $IM = \theta + mY + \psi \frac{P}{PM}$ Import demand (households, firms, government)
- $PM \equiv \frac{1}{e}P^*$ Definition
- $EX \equiv \frac{1}{e}IM^*$ Definition
- $e = k_0 + k_1 \frac{r}{r^*} + k_2 \frac{P^*}{P}$ Behavioral (market determined exchange rate)

Exogenous variables are $G, TR, t, Z, G^*, TR^*, t^*, Z^*$.

$$PPP: P' = eP \left(k = \frac{k}{4} \cdot 1 \right)$$

AS/AD analysis:

$$e \downarrow \rightarrow PM\uparrow \rightarrow P\uparrow$$

$$\rightarrow IM \downarrow \rightarrow \uparrow\uparrow$$

$$\rightarrow PM^* \downarrow \rightarrow E \times \uparrow \rightarrow \uparrow\uparrow \qquad [PM^* = e \cdot P]$$

$$probably$$

Fiscal Policy

$$CA = P \cdot E \times - PM \cdot IM$$

$$PM = \frac{1}{2} P^*$$

