Models of Exchange Rate Determination

Lecture 1 IME LIUC 2014

Exchange Rates Movements Show Some Regularities

- Daily and monthly exchange rates are highly unpredictable
- Exchange rates of countries with high inflation depreciate in the long run by about the inflation rate differential
- The high variability of exchange rate in the short run is not systematically related to change in money supply
- Correlation between monthly changes in the exchange rate and the current account position is low







- Quoting from Rogoff
 - The model is "elegant": it is the beauty and clarity of Dornbush's analysis that has made it so flexible and useful.
 - The model is "path breaking": it changed our way of thinking about the exchange rate.







in the short run:

If m rises but the price level is temporarily fixed, then the supply of real balances must rise as well.

• To equilibrate the system, the demand for real balances must rise. Since output is assumed fixed in the short run, i on domestic currency bonds falls.

 According to the UIP, it is possible for i to fall if and only if, over the future life of the bond contract, the home currency is expected to appreciate.

But how is this possible if we know that the long run impact of the money supply shock must be a proportionate depreciation in the exchange rate?

- Dombusch's brilliant answer is that the initial depreciation of the exchange rate must, on impact, be larger than the longrun depreciation. The exchange rate must overshoot.
 - The volatility of m implies the volatility of e



















