3543 Fiscal and Financial System in Japan A / KC3002 International Finance

Fall 2012

Lecture 6(Nov 20) Exchange Rates(cont.)

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Depreciat How changes in t the expected yer	Depreciation of the Current Dollar How changes in the current exchange rate affect the expected yen return on dollar assets when $E_1^e = 80$		
$R^e \cong 0.03 + rac{80}{E}$ Today's yen/dollar	- E ₀ o Expected yen/dollar	Expected yen return on dollar	
exchange rate	e exchange rate	assets	
81	80	0.01765	
80	80	0.03	
79	80	0.04265	
78	80	0.05564	



Depreciation of the Future Dollar

How changes in the future exchange rate affect the expected yen return on dollar assets when $E_0 = 80$

$$R^{e} \cong 0.03 + \frac{E_{1}^{e} - 80}{80}$$

Today's yen/dollar exchange rate	Expected yen/dollar exchange rate	Expected yen return on dollar assets
80	81	0.0425
80	80	0.03
80	79	0.0175
80	78	0.005



















Changes in dollar interest rates

 $\begin{array}{ll} {\sf E}_1^{\sf e} = 80 & {\sf i} = 0.02 \\ {\sf E}_{\sf 0} = 80.8 & {\sf i}^* = 0.03 \to 0.04 \end{array}$

1. The higher expected return on the dollar assets.

$$R^{e} \cong 0.04 + \frac{80 - 80.8}{80.8} \cong 0.03 > i = 0.02$$

- 2. Investors try to replace all the yen assets with dollar, and the dollar begins to appreciate against the yen.
- 3. At ¥81.6 per dollar, both assets have the same expected return measured in one currency, and the exchange rate stays.

$$E_0 = 80.8 \rightarrow 81.6$$

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