Menzie D. Chinn Social Sciences 7418

Problem Set 4

Due in Lecture on Monday, May 6th. "Box - in" your answers to the algebraic questions.

1. Flexible price monetary model of exchange rates. Assume λ =5.

- 1.1 If the money supply increases by 3% today, and stays 3% higher than it was expected to be, in all future periods, what happens to the nominal exchange rate and nominal interest rate today, and into the future?
- 1.2 If the money supply expected in period t+i falls by Δm , for i>2 relative to what it was previously expected to be (and is expected to remain lower for all the future thereafter), what would immediately happen to the exchange rate *today*?
- 1.3 Suppose the fundamentals grow by 2% per annum. Suppose the growth rate *de*creases by 3%. What happens to the exchange rate, if anything, the instant the growth rate changes?

2. Sticky price monetary model of exchange rates.

- 2.1 Explain what happens if the monetary authority in US increases the money supply by 3 percent. In your answer, indicate the time paths of M, P, M/P, r-r*, s. Use graphs.
- 2.2 Suppose θ equals infinity. Redo 2.1.

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