

Comments on
Javier Bianchi and Louphou Coulibaly
A Theory of Fear of Floating

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- Fear of Floating: an important unresolved theoretical issue
- Main result: pegs reduce likelihood of self-fulfilling financial crises relative to floats
- Specifically, self-fulfilling financial crises exist for larger ranges of indebtedness under floats than pegs
- Environment: small open economy with occasionally binding collateral constraint (as in Bianchi AER 2021) and downward nominal wage rigidity (as in Schmitt-Grohé and Uribe JPE 2016)

$$\frac{b_{t+1}}{R} \leq \kappa(y^T + p_t y_t^N)$$

$$W_t \geq W_{t-1}$$

- The borrowing constraint: $\frac{b_{t+1}}{R} \leq \kappa(y^T + p_t y_t^N)$
- The demand for nontradables: $p_t = \frac{1-\phi}{\phi} \left(\frac{c_t^T}{y_t^N} \right)^{\frac{1}{\gamma}}$
- If $\gamma < 1$, then a real depreciation ($p_t \downarrow$), depresses NT output in terms of T goods ($p_t y_t^N \downarrow$) and hence collateral.
- Because of downward nominal wage rigidity, a real depreciation ($p_t \downarrow$) lowers unemployment ($y_t^N \uparrow$)
- Policy conflict: Real depreciation:
 - raises employment in NT sector ($y_t^N \uparrow$), but
 - tightens collateral constraint ($p_t y_t^N \downarrow$)

Three Monetary Policy Specifications

- Exchange rate peg, $e_t = \bar{e}$ (Fear of Floating)
- Constant money supply, $M_t = \bar{M}$ (Float 1)
- Full employment policy, $h_t = \bar{h}$ (Float 2)

Self-Fulfilling Financial Crises Exist for all 3 Policies

$$\frac{b_{t+1}}{R} \leq \kappa \left[y^T + \left(\frac{1-\phi}{\phi} \right) \left(y^T + \frac{b_{t+1}}{R} - b_t \right)^{\frac{1}{\gamma}} h_t^{1-\frac{1}{\gamma}} \right]$$

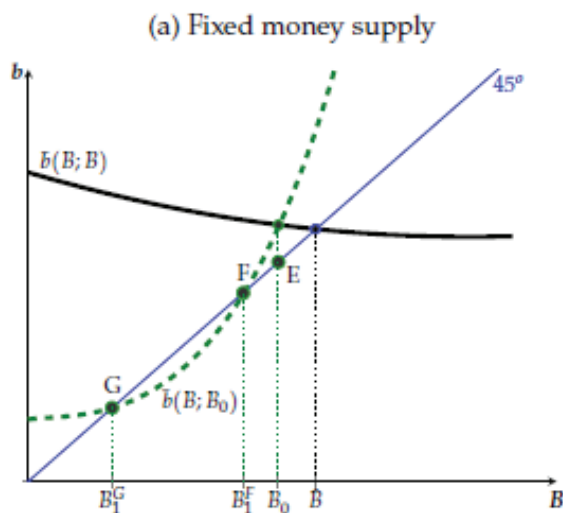


Figure 2: Equilibria under flexible exchange rate

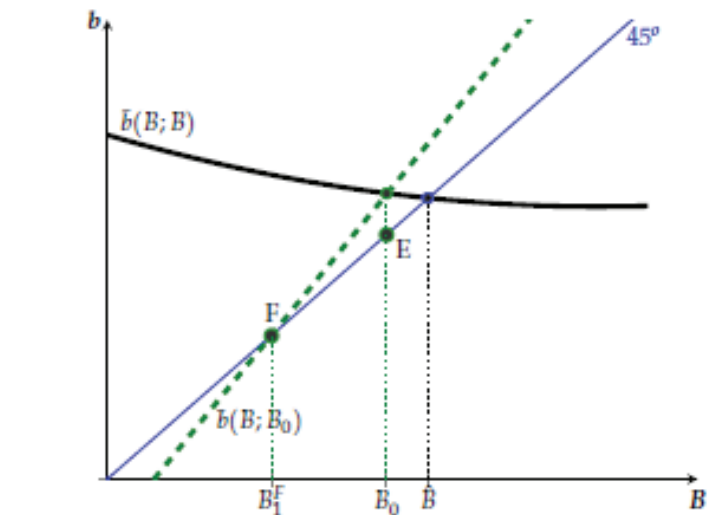
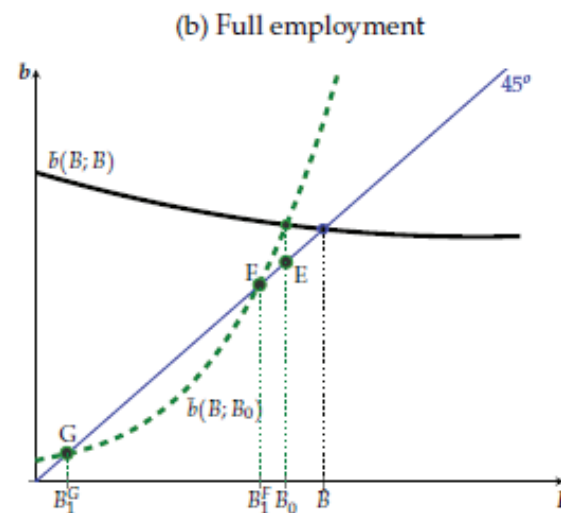


Figure 1: Equilibria under fixed exchange rate

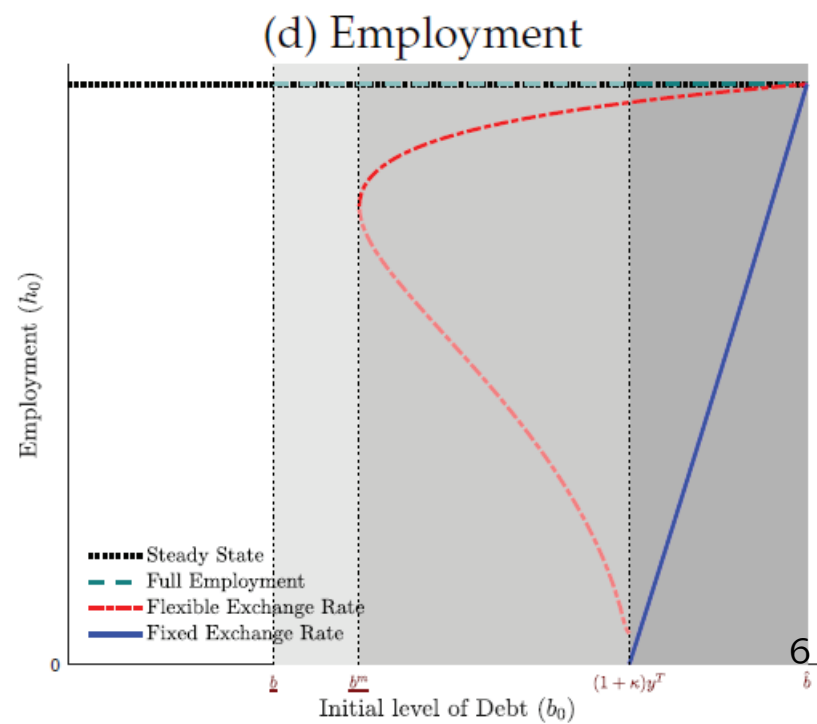
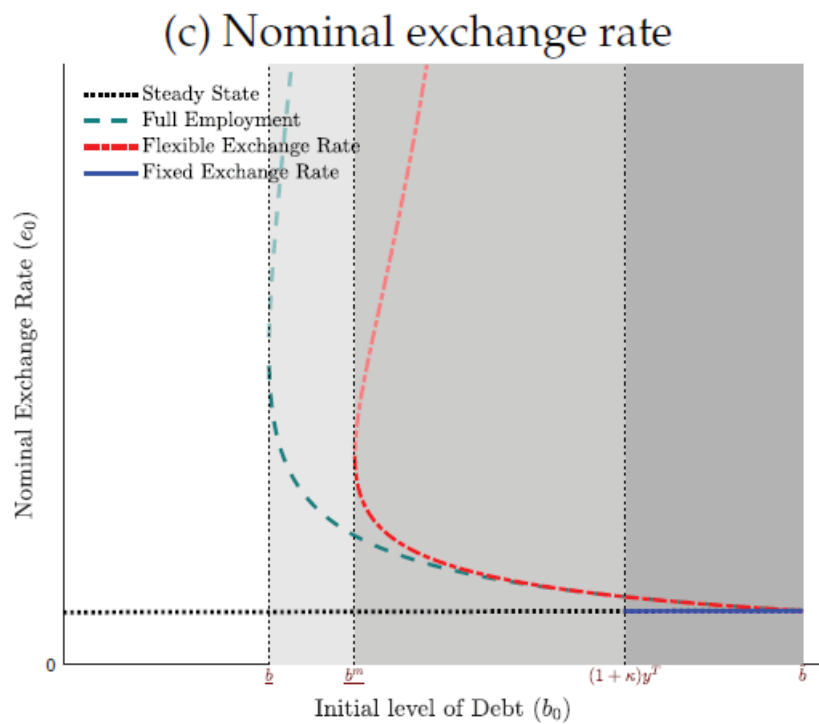
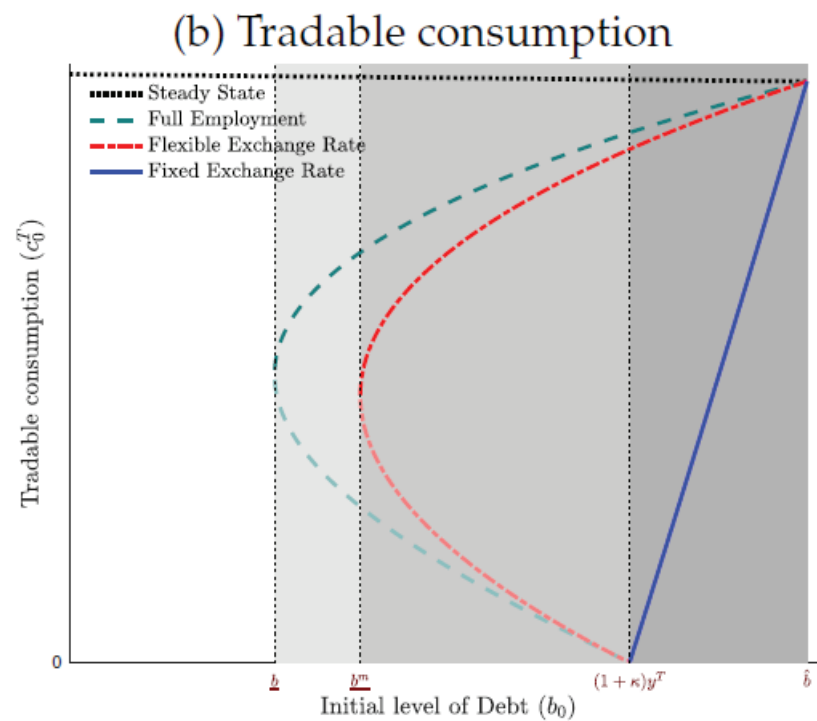
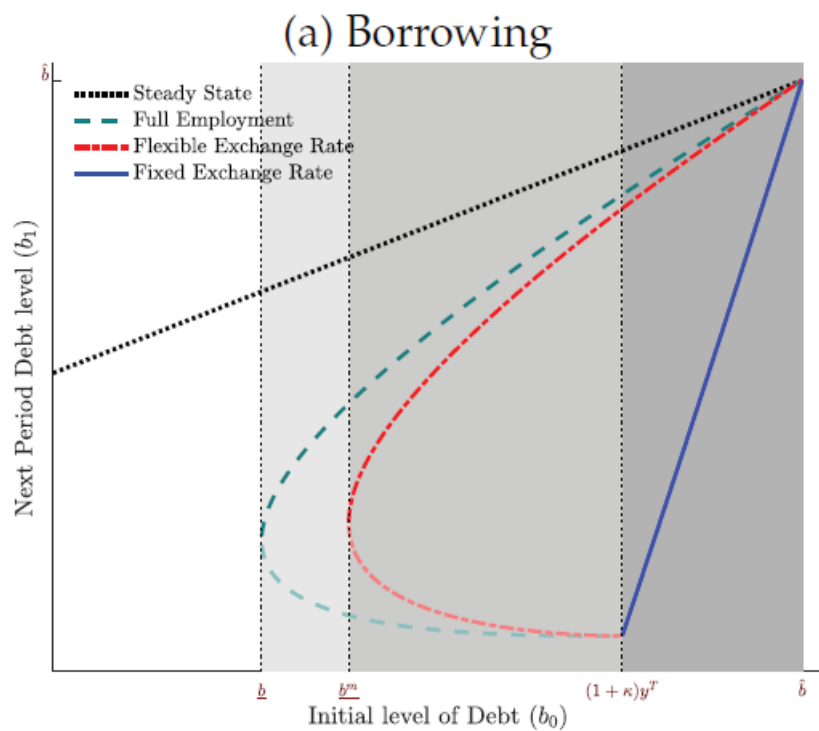
but the range of b_0 for which they exist depends on policy

Under peg range of b_0 for which self-fulfilling financial crisis is the **smallest** hinting at 'A Theory of Fear of Floating'

Why? Because effect of a depreciation on collateral value ($p_t h_t$) is smallest under the peg. Up to first order:

$$\text{Under peg: } \hat{p}_t + \hat{h}_t = 0 + \hat{h}_t = \hat{c}_t^T$$

$$\text{Under full employment policy: } \hat{p}_t + \hat{h}_t = \hat{p}_t + 0 = \frac{1}{\gamma} \hat{c}_t^T > \hat{c}_t^T.$$



Comment 1:

Other ways than ‘fear of floating’ to reduce the chance of a self-fulfilling crisis? Other ways to prop up value of collateral (than tolerating some unemployment) could be:

- consumption subsidies
- capital control taxes

In Schmitt-Grohé and Uribe (RES 2021), we show that either consumption subsidies or off-equilibrium threats of imposing large capital control taxes on speculative capital outflows can eliminate the self-fulfilling financial crisis.

Comment 2:

- In quantitative related work (not considering self-fulfilling crises), tradeoff between full-employment versus financial distortions has been explored, and, ... the tradeoff is not clearly resolved in favor of a peg.
- EX: Ottonello (JIE 2021). Optimal exchange rate and capital control tax policy. Aim was to get a theory of fear of floating.
 - but ... finds that in a fundamental crisis under optimal policy the government still shows some ‘love of floating.’ Dynamics under optimal policy look closer to dynamics under full employment than under peg:
 - Under optimal policy still large real and nominal depreciation and low unemployment contrary to peg. — Under iid shocks, however, optimal policy displays more ‘fear of floating.’
 - Absent interest rate shocks, also more ‘fear of floating’.
 - More ‘fear of floating’, the more indebted the country is.

Summary

- Great paper
- Speaks to an important unresolved question in economics: Why is there fear of floating and what are the economic benefits of a currency union
- New angle: Fear of floating protects country from self-fulfilling deleveraging crises.