14THJACQuesPOLaKANNUALRESEARCHCONFERENCE
Noveniber 7-8,2013

# Currency Regimes, Capital Flows, and Crises 

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Paper presented at the 14th Jacques Polak Annual Research Conference
Hosted by the International Monetary Fund
Washington, DC-November 7-8, 2013

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## Currency regimes, capital flows, and crises

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Don't be fooled by today's low interest rates. The government could very quickly discover the limits of its borrowing capacity: An urgency to rein in budget deficits seems to be gaining some traction among American lawmakers. If so, it is none too soon. Perceptions of a large U.S. borrowing capacity are misleading. Despite the surge in federal debt to the public during the past 18 monthsto $\$ 8.6$ trillion from $\$ 5.5$ trillion-inflation and long-term interest rates, the typical symptoms of fiscal excess, have remained remarkably subdued. This is regrettable, because it is fostering a sense of complacency that can have dire consequences .... Fortunately, the very severity of the pending crisis and growing analogies to Greece set the stage for a serious response.

- Alan Greenspan in the Wall Street Journal, June 10, 2010
[T]his is a problem we're going to have to face up to. It may be two years, you know, maybe a little less, maybe a little more. But if our bankers over there in Asia begin to believe that we're not going to be solid on our debt, that we're not going to be able to meet our obligations, just stop and think for a minute what happens if they just stop buying our debt.
- Erskine Bowles, co-chairman of President Obama's debt commission, in testimony to the Senate Budget Committee, March 8, 2011

"I think you should be more explicit here in step two."

Figure 1: Debt and interest rates


Figure 2: Debt and interest rates, by currency


Figure 3: Spreads against Germany


Figure 4: Spreads against Germany


Figure 5


Modeling sudden stops I: IS-MP analysis

Figure 6
(1) $y=A(r)+N X(y, e)$
(2) $K\left(r_{2}, e\right)+N X\left(y_{2} e\right)=0$
(3) $r=\operatorname{Max}\left[0, T\left(x_{2}, e\right)\right]$



Figure 8
Interest
rate
Real GDP

Figure 9


Miniature New Keynesian model:

$$
U=\sum_{t=1}^{\infty} \ln \left(C_{t}\right)(1+\delta)^{-t}
$$

where $\delta$ is the rate of time preference, and

$$
C=C_{H}^{(1-\mu)} C_{M}^{\mu}
$$

Add borrowing constraint, assumed to be binding; sudden stop takes form of unexpected inward shift of this constraint.

The model boils down to:

1. Steady state - kind of tedious, affected by short-run events
2. Current account condition
3. Euler conditions on consumption of imports and home good

## Capital account + Current account $=0$

$$
\text { Net exports }=A \frac{P^{*}}{E P}-\overline{I M} \frac{1+\delta}{1+r}
$$

Floating rate adjustment here

Fixed rate adjustment here

Possible channels to reverse this result:

1. Long-term versus short-term interest rates
2. Banking crisis
3. Foreign currency debt
4. Inflation


Figure 10


Figure 11


Figure 12


Figure 13


The confidence gnomes:

1. Loss of confidence
2. ?????
3. Greece!

Still waiting for an explanation of step 2

