

Discussion of Ascari, Colciago and Rossi
“Limited Asset Market Participation
and Optimal Monetary Policy”

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DNB Annual Research Conference 2016

Quick summary

What does the paper do?

Studies optimal monetary policy in New Keynesian model with

- 1 Limited asset market participation (LAMP) as in Bilbiee (2008)
- 2 Nominal wage stickiness as in Erceg et. al. (2000)

Bilbiee (2008)

Sufficiently severe LAMP

- Aggregate demand increasing in real interest rate (IADL)
- Features of optimal monetary policy inverted

Strong response of wage to aggregate demand is key

Key insight of this paper

- Wage stickiness eliminates IADL
- Restores familiar optimal monetary policy

Discussion

Very nice paper

- Wage flexibility key in Bilbee's mechanism
- Very natural to revisit his analysis with wage stickiness

Plan for rest of discussion

- Simple two-period version of Bilbee (2008), not linearized
- Consider first flexible, then sticky wages
- Point out problem with IADL:
 - Arises only in unstable equilibrium
 - Stable equilibrium missed because of linearization
- Consequence of interaction LAMP & wage flexibility:
 - Not IADL (and the associated monetary policy implications)
 - Bad stable equilibrium with usual comparative statics
- Sticky wages stabilize, eliminate bad equilibrium

Model

Simple two-period model

- Nominal price level fixed in period 1
- Flexible price equilibrium in period 2
- Production function: $Y = N$
- Period utility: $\log(C + \gamma) + \log(1 - N)$

Consumption of Ricardian households

- Period 2: flexible price equilibrium C_S^*
- Period 1: Euler equation yields

$$C_S(r) = [\beta(1 + r)]^{-1}(C_S^* + \gamma) - \gamma.$$

Model

Labor supply

- Ricardian:
$$N_S(w, C_S) = \max \left\{ 1 - \frac{C_S + \gamma}{w}, 0 \right\}$$
- Non-Ricardian:
$$N_H(w) = \max \left\{ \frac{1}{2} \left[1 - \frac{\gamma}{w} \right], 0 \right\}$$

Labor market clearing

- Condition: $Y = \lambda N_H(w) + (1 - \lambda) N_S(w, C_S)$
- Solve for $w(Y, C_S)$

Keynesian Cross

$$Y = \lambda \frac{1}{2} [w(Y, C_S(r)) - \gamma] + (1 - \lambda) C_S(r)$$

Illustration with $\lambda = 0.9$ and $\gamma = 0.1$

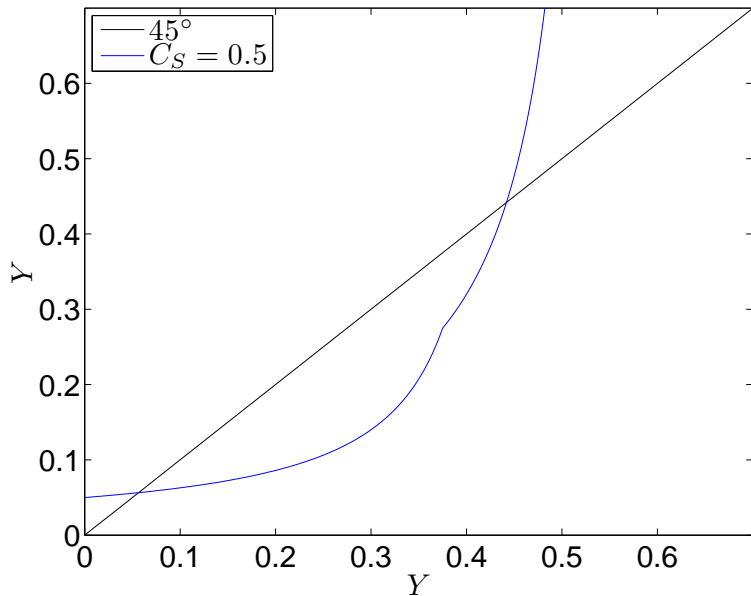
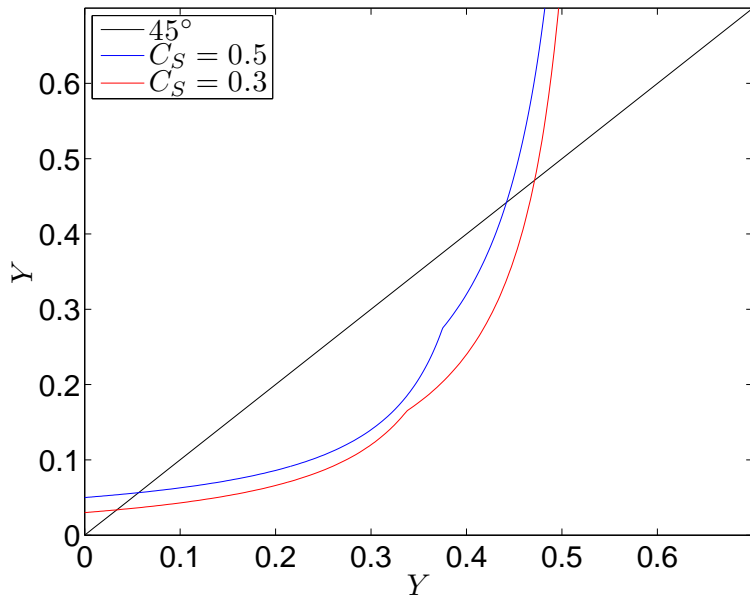


Illustration with $\lambda = 0.9$ and $\gamma = 0.1$



Fixed wage

Labor rationing

Assume equal rationing $N_S = N_H = Y$

Keynesian cross

$$Y = \lambda wY + (1 - \lambda)C_S$$

Illustration with $\lambda = 0.9$ and $w = 1$

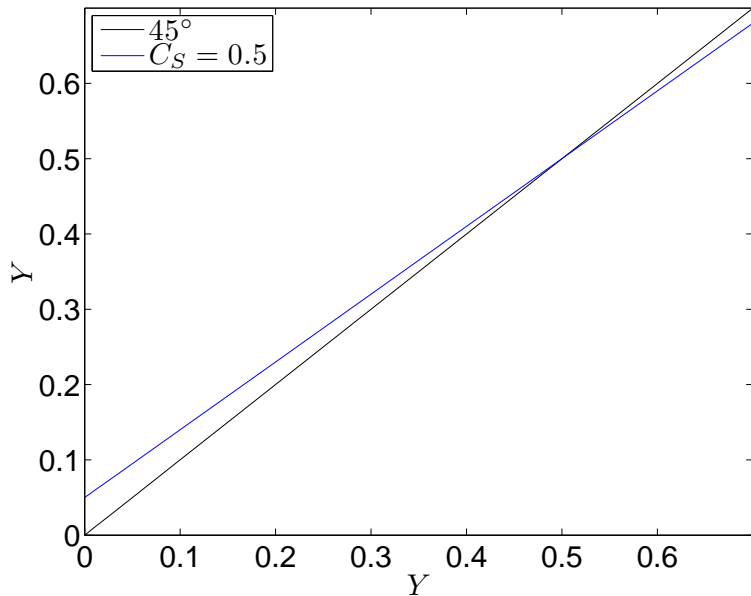
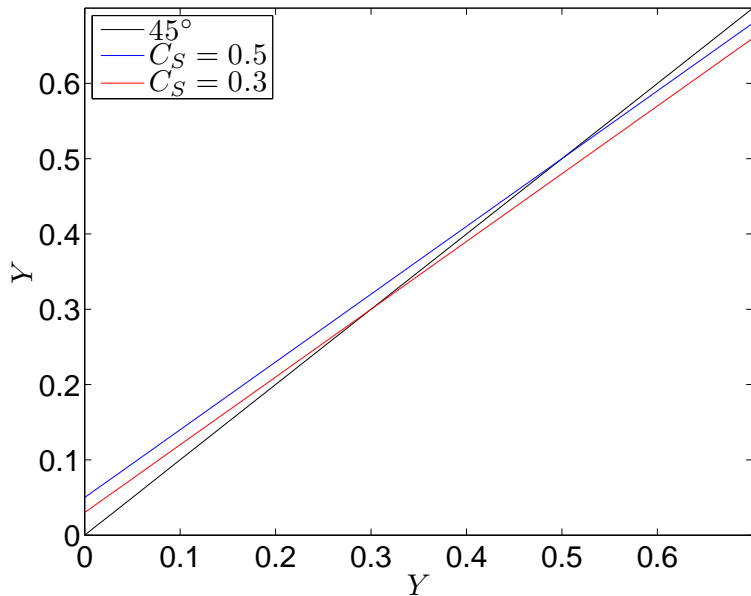


Illustration with $\lambda = 0.9$ and $w = 1$



Punchline

- IADL may not be relevant even with wage flexibility
- Interaction LAMP with degree of wage flexibility important
- Model combining LAMP & wage stickiness very valuable