

DISCUSSION OF:
MONETARY POLICY ACCORDING TO HANK
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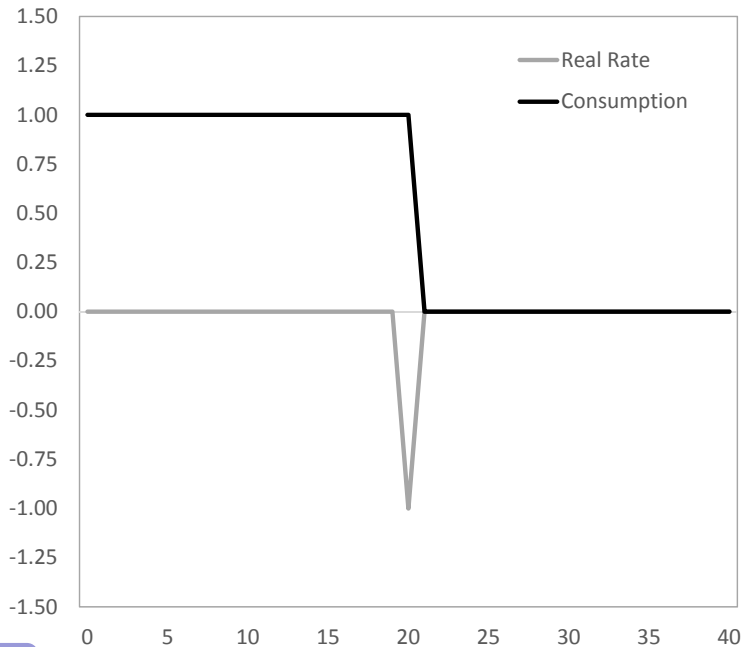
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HANK is the Future of Monetary Economics

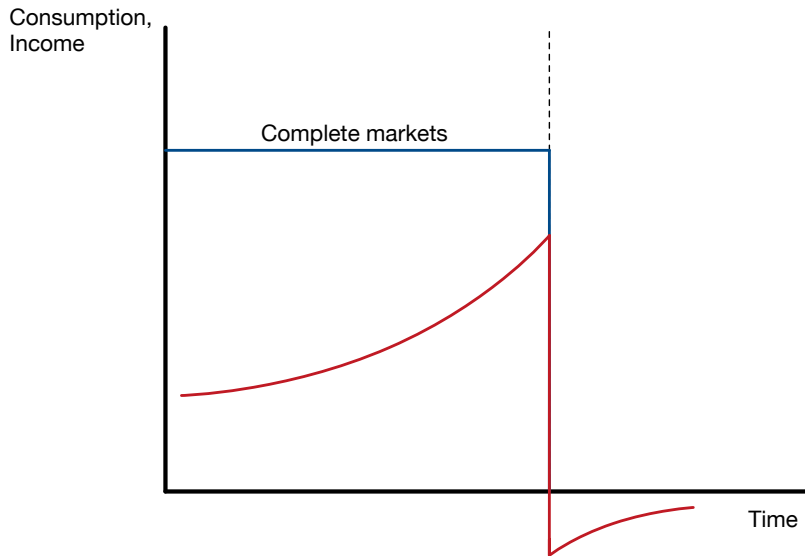
MP in HANK = MP in RANK

If:

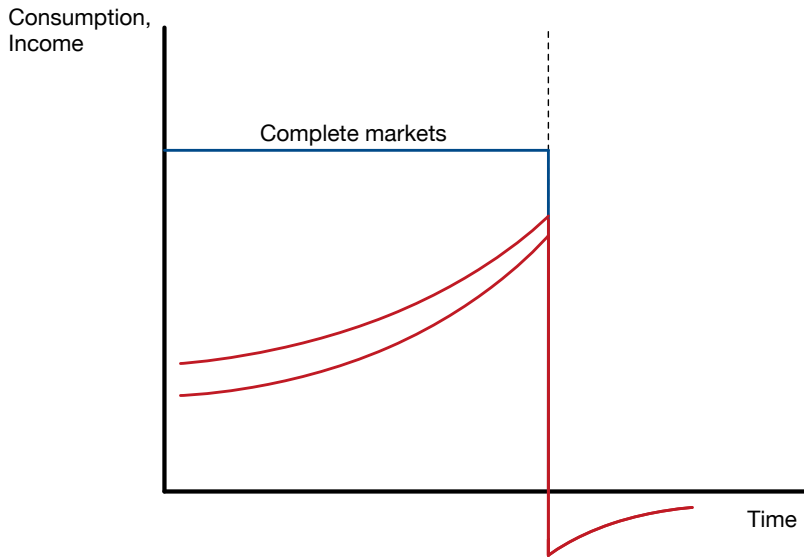
- Individual income is proportional to aggregate income for all agents (distribution of relative income is unaffected by changes in aggregate income)
- Liquidity is proportional to aggregate income for all agents (borrowing constraints and asset values)



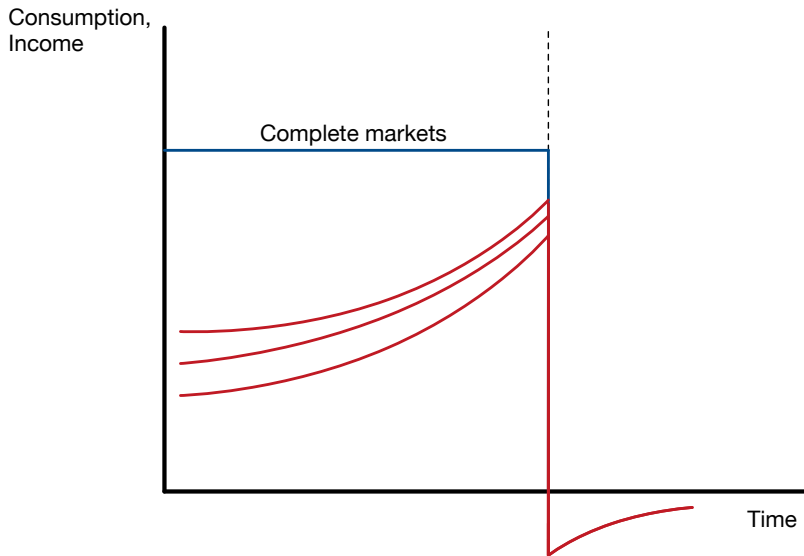
GENERAL EQUILIBRIUM EFFECTS



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WHEN IS MP IN HANK WEAKER?

- MP involves redistribution of wealth towards less constrained agents
- Income of more constrained agents doesn't rise proportionally with aggregate income
- Borrowing constraints and value of asset doesn't change proportionally with aggregate income
- Risk is pro-cyclical

FOCUS OF HANK PAPER

- What is the relative size of direct effects and indirect effects of monetary policy?
- RANK: 95% direct effects
- HANK: Mostly indirect effects
- Same general thrust as in Werning's paper
- But what about aggregate effects?

	T adjusts (1)	G adjusts (2)	B^g adjusts (3)
Change in r^b (pp)	-0.23%	-0.21%	-0.25%
Change in Y_0 (%)	0.41%	0.81%	0.13%
Implied elasticity Y_0	-1.77	-3.86	-0.52
Change in C_0 (%)	0.50%	0.64%	0.19%
Implied elasticity C_0	-2.20	-3.05	-0.77
<u>Component of Change in C due to:</u>			
Direct effect: r^b	12%	9%	37%
Indirect effect: w	59%	91%	48%
Indirect effect: T	32%	0%	15%
Indirect effect: r^a	0%	0%	0%

Table 6: Decomposition of monetary shock on non-durable consumption

RANK implied elasticity C_0 : -1.50

REDISTRIBUTION IMPORTANT

- T adjusts case $>$ RANK because of redistribution towards poor
- G adjusts case $>$ T adjusts because of “redistribution” towards government (MPC = 1 agents)
- B adjusts case small (no such redistribution)

- Redistribution clearly very important in HANK
- No gross positions important limitation

DIRECT VERSUS INDIRECT EFFECTS

Alternative summary:

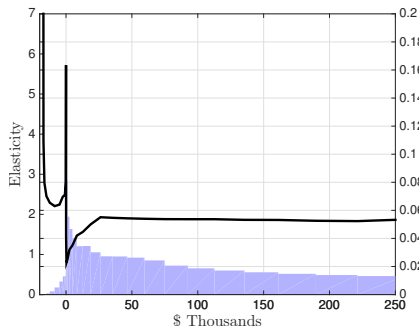
- Direct effects are robustly small
- Indirect effects can be either large or small
 - Depends on a lot of stuff
- Empirical evidence gives some guide as to how large indirect effects are

Why do we care?

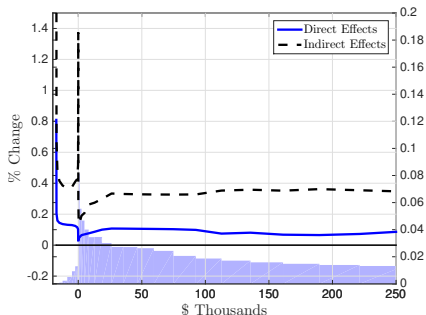
- Usual reason why structural models are useful (Lucas critique)
- Don't have empirical evidence on all types of policy experiments

WHY DO THE RICH BEHAVE LIKE THE POOR?

TWO ASPECTS: LARGE INDIRECT EFFECT AND SMALL DIRECT EFFECT



(a) Elasticity with respect to r^b



(b) Consumption Change: Indirect and direct

Figure 5: Consumption Responses by Liquid Wealth Positions

WHY DO THE RICH BEHAVE LIKE THE POOR?

Large indirect effects:

- GHH preferences (Elasticity -2.2 versus -1.2)
- Realistic?

Small direct effects:

- Wealth effects (wealthy loose interest income)
- Redistribution important!!

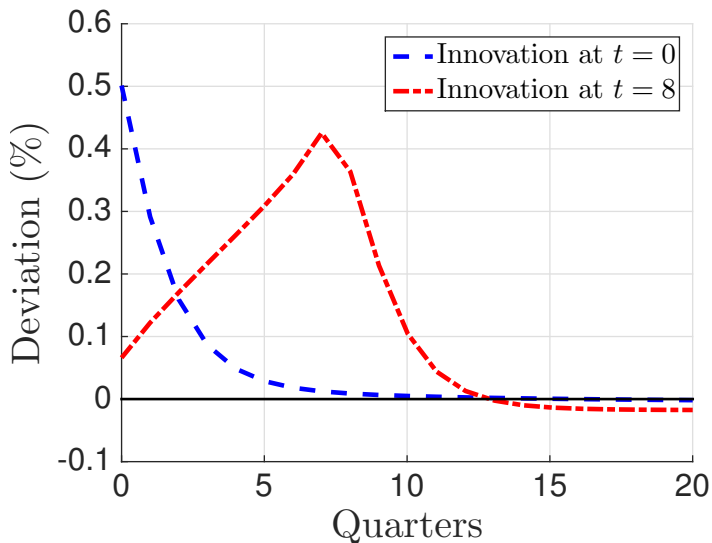
OTHER ISSUES

- Risk versus predictable changes in earnings
- Consumption can't be analyzed in isolation
- No durable consumption goods

FORWARD GUIDANCE ROBUSTLY LESS POWERFUL

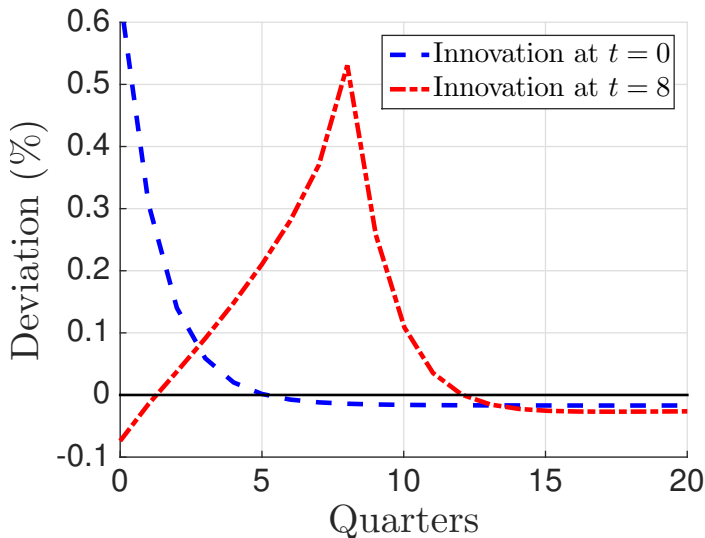
- Power of contemporaneous monetary policy sensitive to specification of fiscal policy
- Power of forward guidance robustly smaller in HANK than RANK

FORWARD GUIDANCE WHEN T ADJUSTS



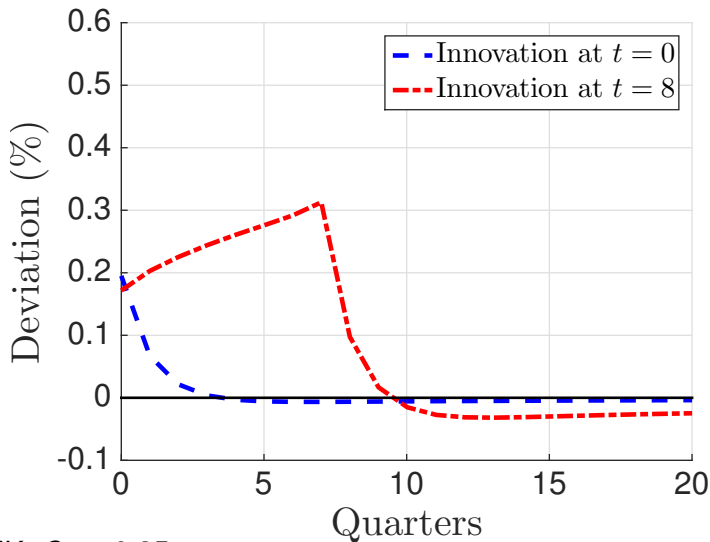
In RANK: $C_0 = 0.35$

FORWARD GUIDANCE WHEN G ADJUSTS



In RANK: $C_0 = 0.35$

FORWARD GUIDANCE WHEN B ADJUSTS



In RANK: $C_0 = 0.35$

Many things matter that didn't before:

- Gross positions
- Response of labor income to product demand
- Response of borrowing limits to lower interest rates and higher output
- Asset liquidity / duration
- Durables / investment / financial intermediation / etc.

Appendix

PARTIAL EQUILIBRIUM

