

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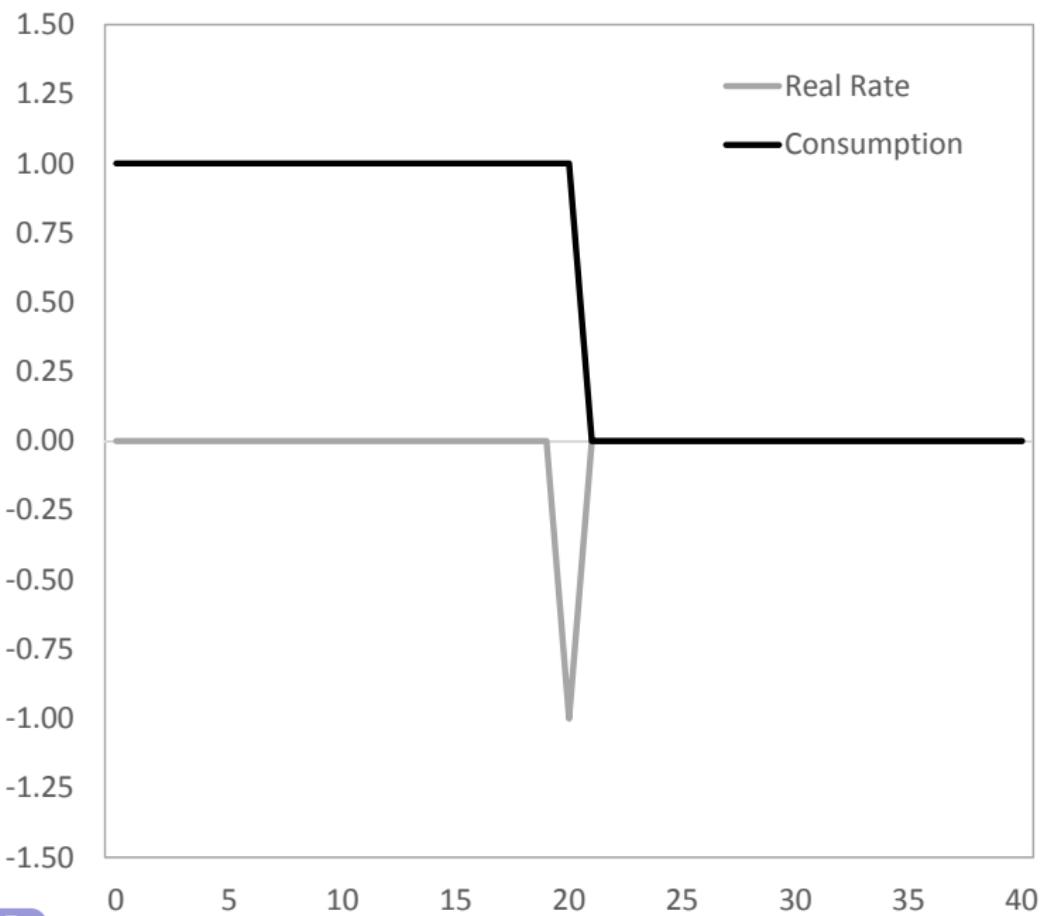
HANK is the Future of Monetary Economics

IVAN WERNING BEGS TO DIFFER

MP in HANK = MP in RANK

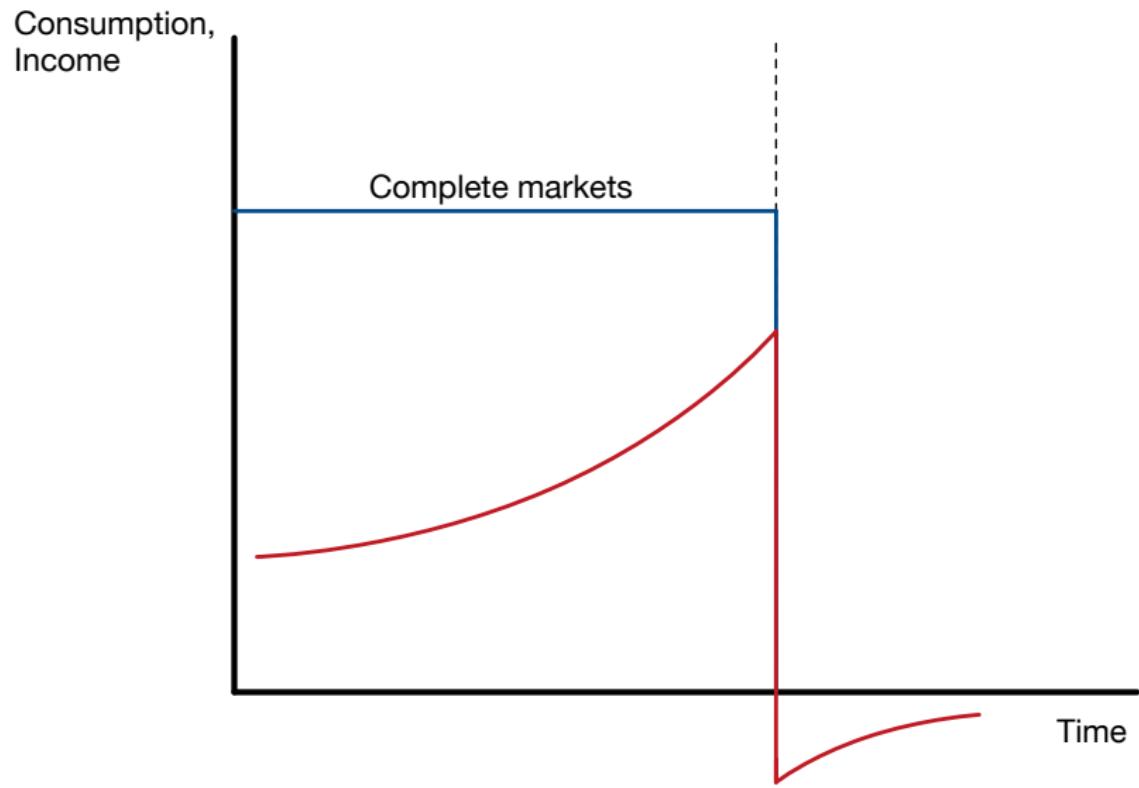
If:

- 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)

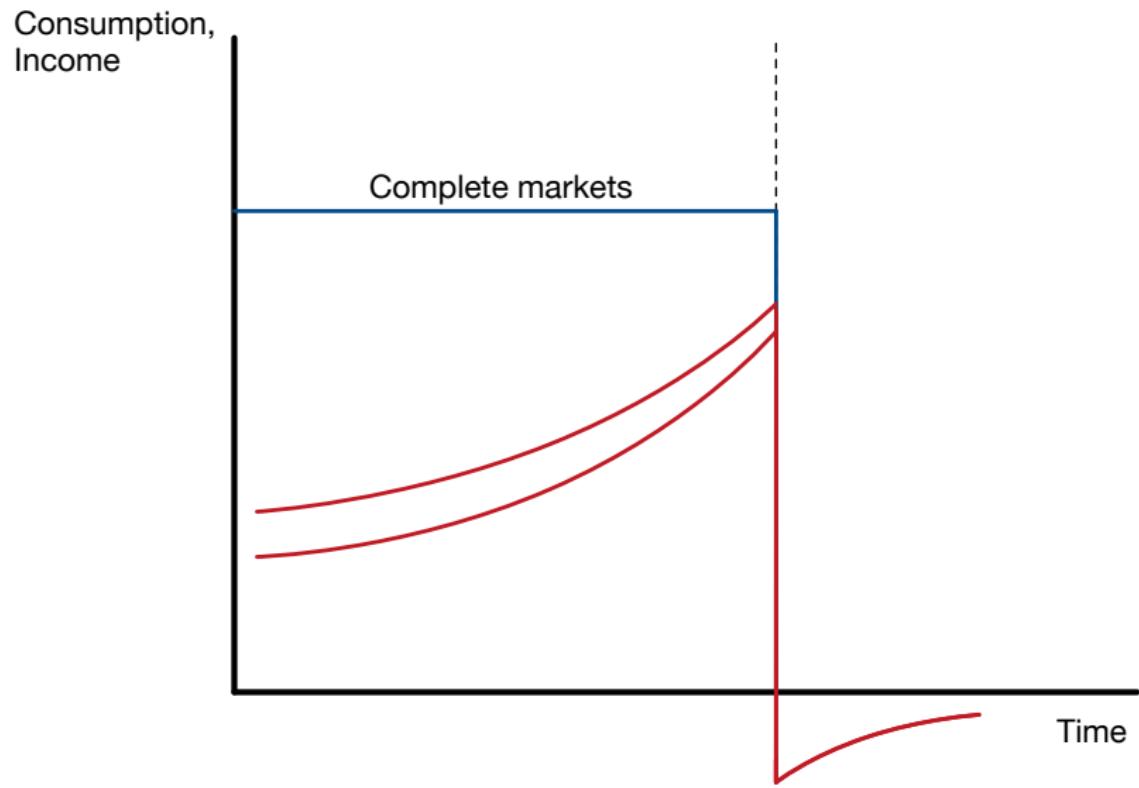


▶ Partial Eq

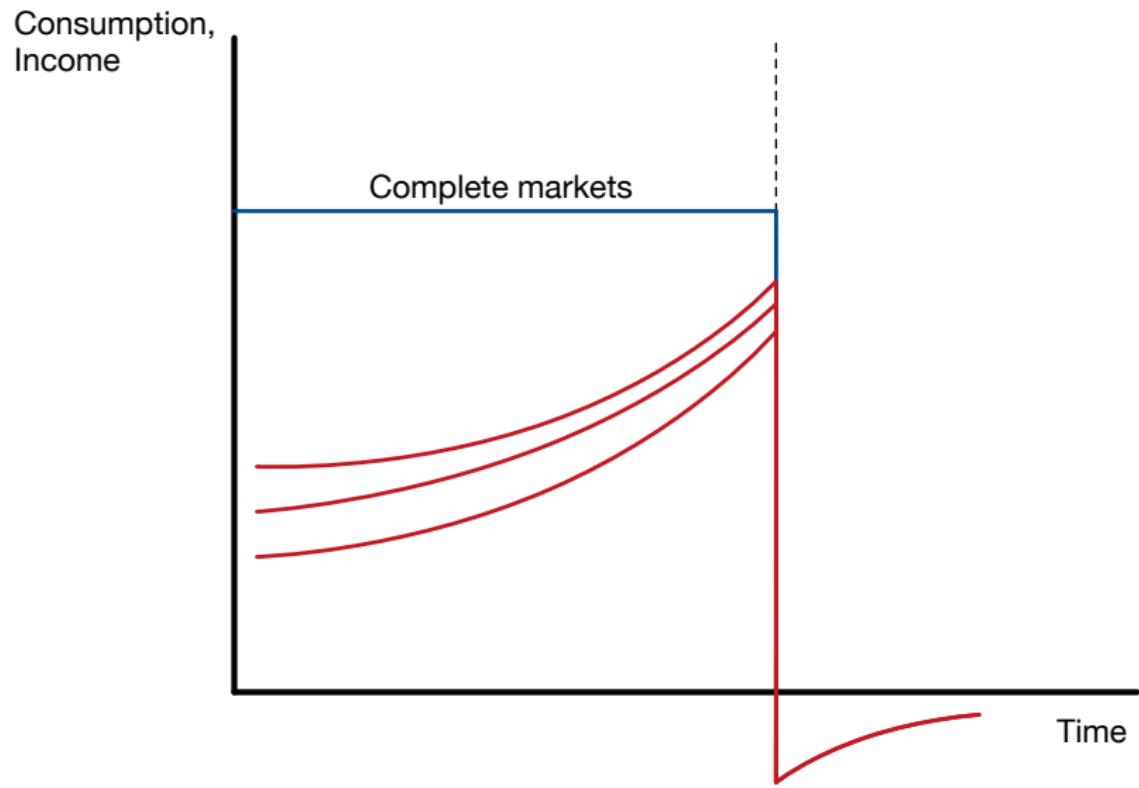
GENERAL EQUILIBRIUM EFFECTS



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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 |

Component of Change in C due to:

| | | | |
|------------------------|-----|-----|-----|
| 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:

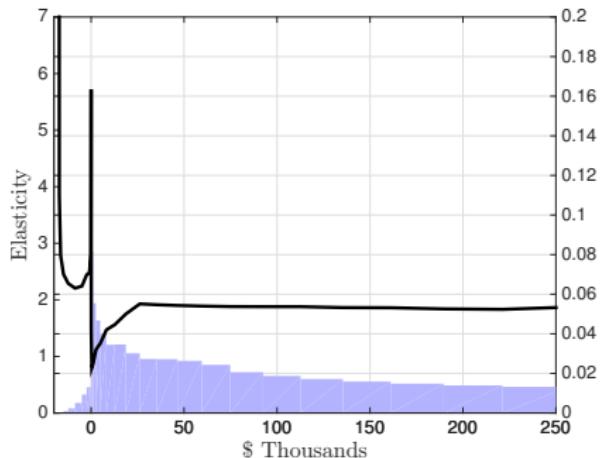
- Direct effects are robustly small
- Indirect effects can be either large or small
 - Depends on a lot of stuff
- Empirical evidence gives some guide as to how large indirect effects are

Why do we care?

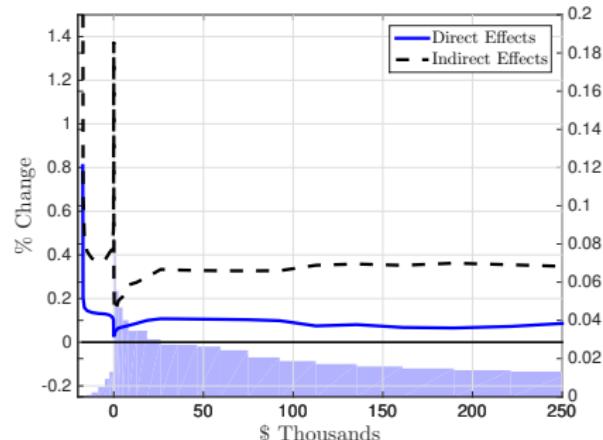
- Usual reason why structural models are useful (Lucas critique)
- Don't have empirical evidence on all types of policy experiments

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!!

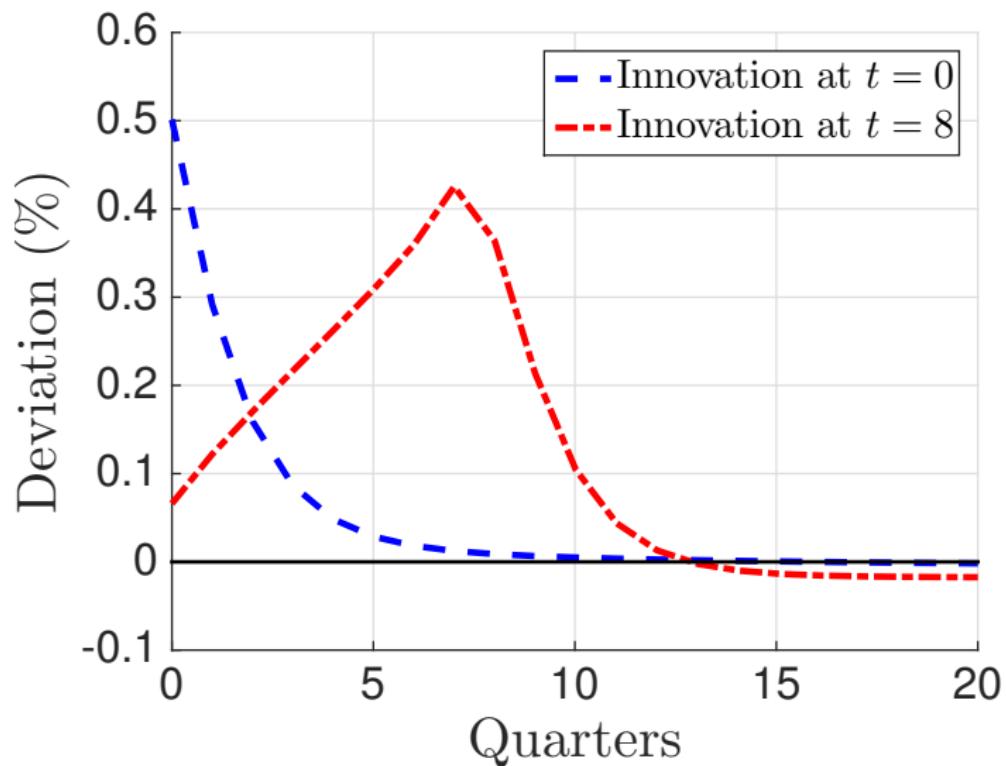
OTHER ISSUES

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

FORWARD GUIDANCE ROBUSTLY LESS POWERFUL

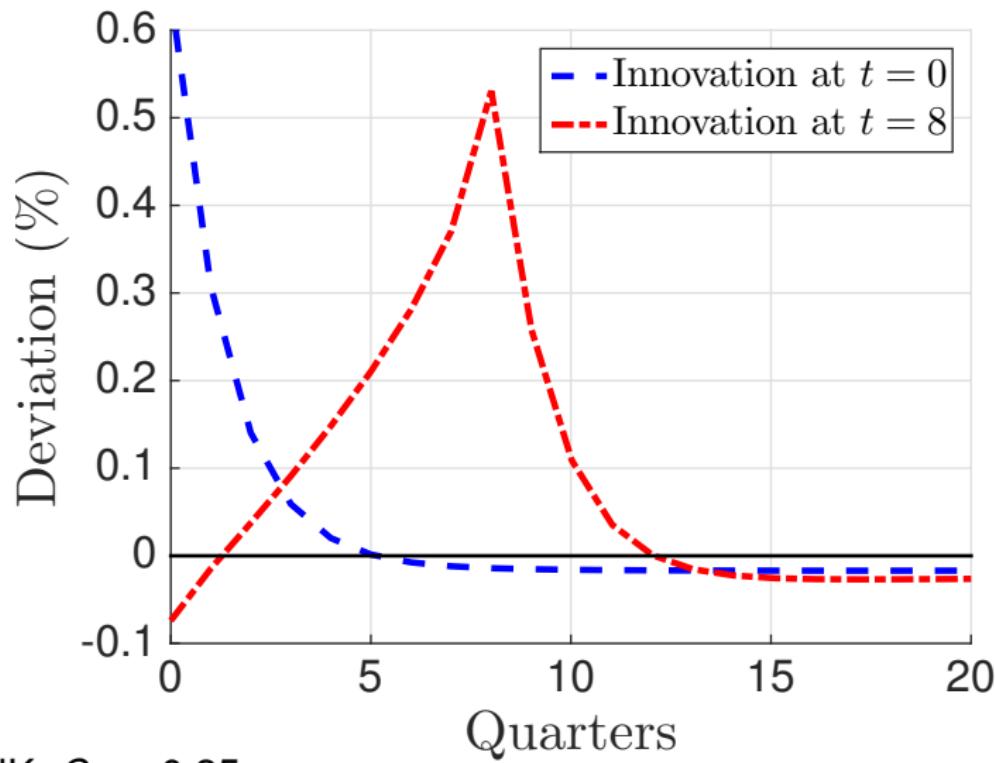
- Power of contemporaneous monetary policy sensitive to specification of fiscal policy
- Power of forward guidance robustly smaller in HANK than RANK

FORWARD GUIDANCE WHEN T ADJUSTS



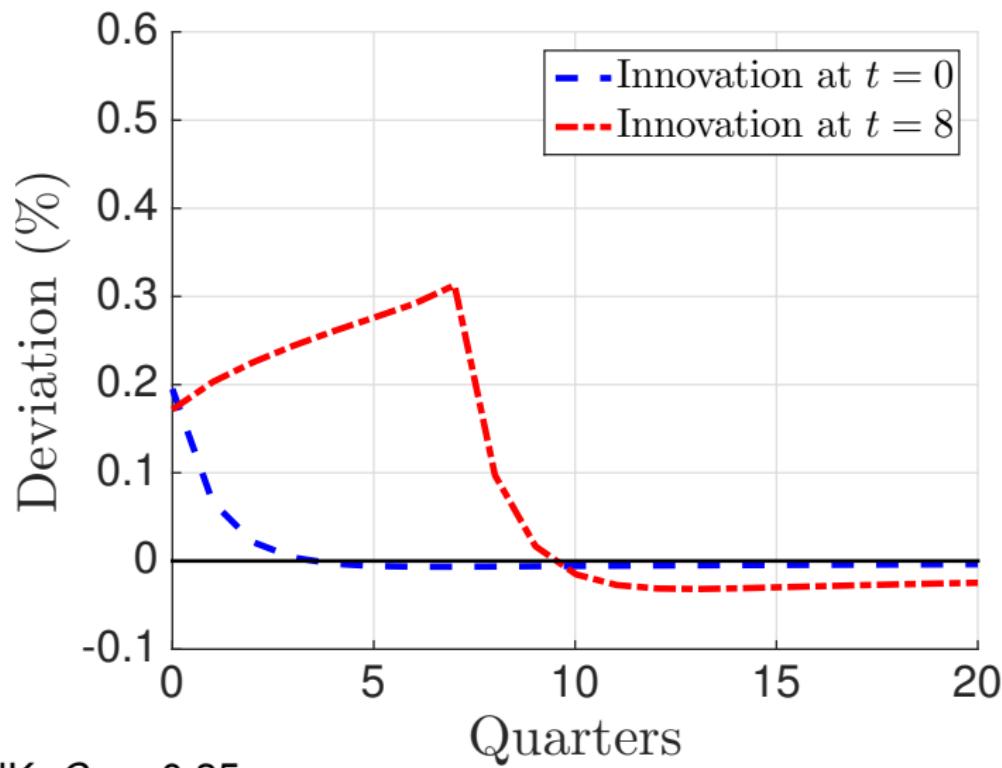
In RANK: $C_0 = 0.35$

FORWARD GUIDANCE WHEN G ADJUSTS



In RANK: $C_0 = 0.35$

FORWARD GUIDANCE WHEN B ADJUSTS



In RANK: $C_0 = 0.35$

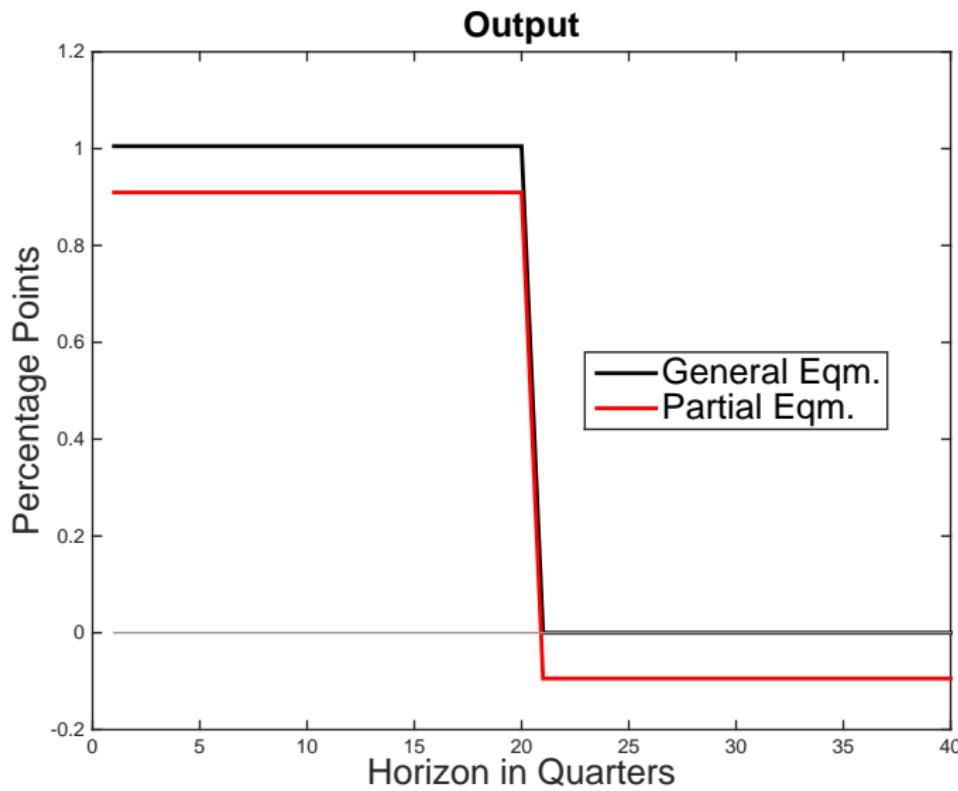
WAY FORWARD

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



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