

Discussion of:

*The Financial Origins of  
the Rise and Fall of American Inflation*

by Itamar Drechsler, Alexi Savov and Philipp Schnabl

Todd Keister  
Rutgers University

Yann Koby  
Brown University

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# Overview

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The paper does two things:

## 1. Presents a set of intriguing empirical results

- ▶ local inflation is, at times, correlated with local banking system structure
- ▶ areas with higher “exposure” to the restrictions from Regulation Q had higher inflation rates
- ▶ effects are surprisingly large

## 2. Offers an interpretation of these results

- ▶ in terms of an (informal) AS/AD framework
- ▶ draws historical policy conclusions based on this interpretation
  - ▶ the Great Inflation was not caused by accommodative monetary policy
- ▶ and offers thoughts for the current situation in the U.S.
  - ▶ no need to fear a return of high inflation (because there is no Reg. Q)

## General comments

Thought-provoking idea on an influential macroeconomic episode

- Relevant for today's inflation "fear" (Polls: US voters very  $\pi$ -aware)

Basic idea:

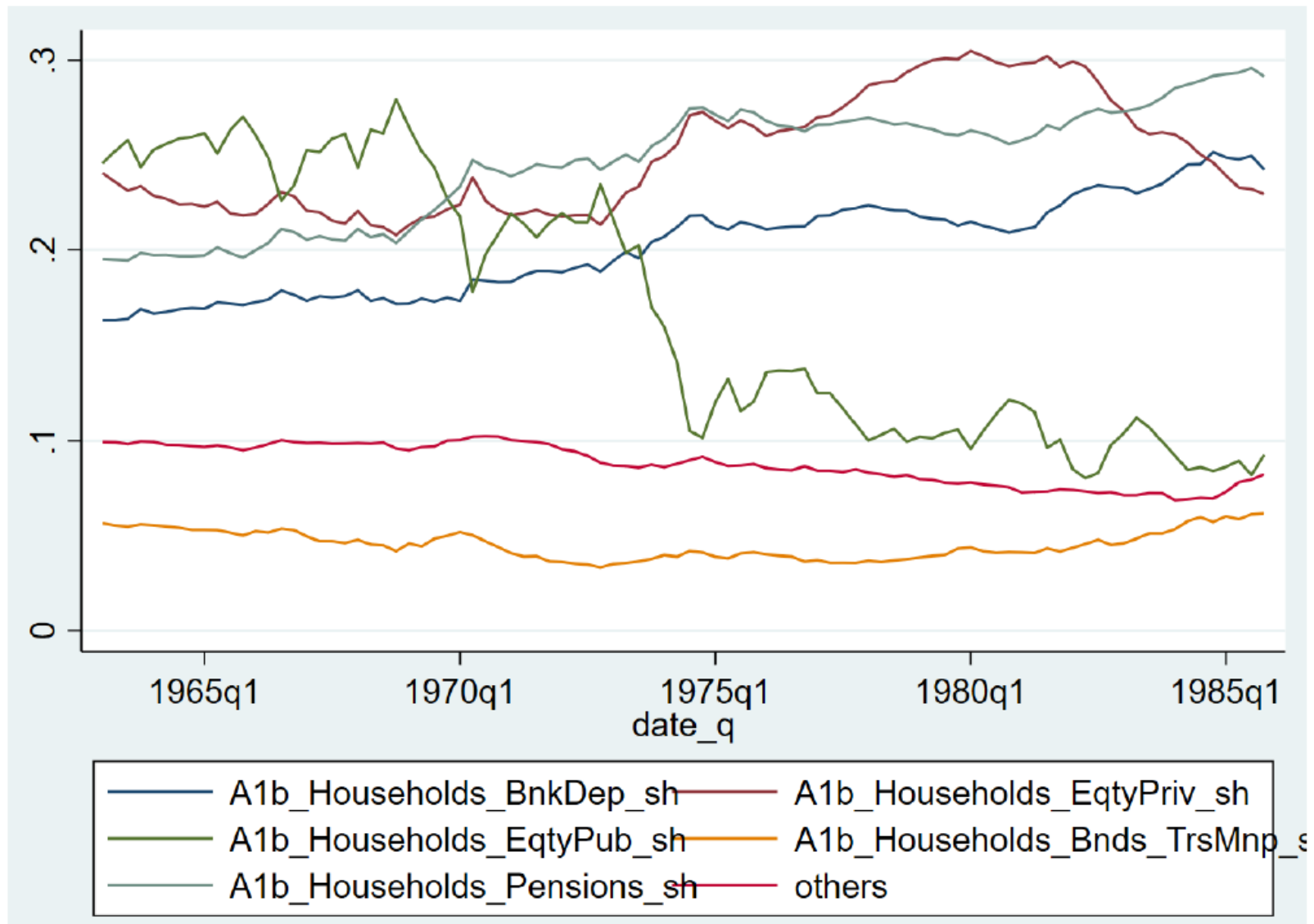
- Reg Q:  $R^d$  ceiling
- **Demand**: if  $R^d$  in Euler eqn, standard IS,  $\pi \uparrow Y \uparrow$
- **Supply**: "Deposits channel" bis (DSS 2017):
  1.  $R^d \downarrow \rightarrow D \downarrow$
  2.  $D \downarrow \rightarrow L \downarrow$
  3.  $L \downarrow \rightarrow Y \downarrow$
- Sum of the two:  $\pi \uparrow$  and  $Y$  stagnates

Evidence:

- Macro time series (stylized facts)
- Micro data: exploit regional heterogeneity of treatment timing or intensity

# On the IS channel

## Flow of Funds 1962-1986



## On the IS channel

Flow of Funds 1962-1986:

1. Deposits a small percent (15-20%) of total household wealth (fact driven by very wealthy)
  - Is  $R^d$  relevant for Euler equation/IS channel?
  - Wealthy more likely to be on Euler equation (Koby and Wolf)
  - Micro evidence still provides convincing evidence of  $\pi \uparrow$ , but what if only driven by supply shock (see next slide)?
2. Deposits share of household wealth constant or increasing during time period
  - Not sure how to reconcile
  - Paper uses real deposit growth
  - Overall wealth contraction could result in low real deposit growth even amid absence of active substitution by households, even locally (although paper provides substantial casual evidence of substitution)

## On the Deposits channel

Let's take  $R^d \downarrow \rightarrow D \downarrow$  for granted.

1.  $D \downarrow \rightarrow L \downarrow$ :

- Can test directly in DiD? (You have bank assets, why not throw in bank loans?)
- In other words, are banks balance sheet constrained at the time or can they sell treasuries (demanded by households!) with deposits?

2. What happens when  $L \downarrow$ ? Quite important and of broad interest for macroeconomists

- DSGE literature: supply/investment shocks can have different effects depending on how firms react. In all cases  $Y \downarrow$  (unless capital is destroyed), but what happens to  $\pi$  is ambiguous. If bank loan supply shock look like higher firm mark-ups, for example,  $\pi \uparrow$ .
  - Could rationalize DiD without IS channel.
- Over 20 year period, could expect non-bank financial intermediation to play a large substitution role (DiD too short to capture?)

## Additional comments

- Time series analysis more formal? (VARs, Granger tests...)
- Tambalotti 2003 (Inflation, Productivity and Monetary Policy): Fed used wrong rule, made output shocks generate large fluctuations to inflation
  - Could rationalize inflation movements even without IS channel
- How to map back DiD effect to aggregate? What is % of inflation, output movements explainable by Reg Q? (SVARs)
- Costs of Reg  $Q$  probably not  $R^D \times D/C$  (who owns the banks?)
- Normative implications? Should Reg Q never have existed in the first place?
  - Potential DiD test for measures for financial (bank) stability?

**Great paper**, look forward to see its path!

# A few more comments

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- ▶ Pass through
- ▶ Timing
- ▶ Lags?
- ▶ Conclusion



# Pass through

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- ▶ In recent decades, pass-through of monetary policy to deposit rates is well below 100%
  - ▶ DSS (2017) estimate it at 40%
  - ▶ this level of pass-through is apparently enough to control inflation
- ▶ Paper claims pass-through in the Reg-Q period was “essentially zero”
- ▶ But others have emphasized how banks found ways around Reg. Q
- ▶ Milton Friedman (1970):
  - ▶ “... bonuses for first deposits, continuous compounding, crediting interest from the first of the month for deposits made up to some later date, and so on, have been widely [used].”
  - ▶ the Eurodollar market developed, in part, as a way to avoid Reg. Q by having the “deposit” booked at an offshore bank
  - ▶ “My impression is that the degree of enforcement ... is closer to zero than to 100 per cent.”

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- ▶ Friedman emphasized: Reg. Q changed *composition* of bank liabilities
    - ▶ “from December 25, 1968, to July 30, 1969 ... large negotiable CD's declined \$9.9 billion; ...
    - ▶ liabilities of U.S. banks to their foreign branches rose \$7.5 billion. ...[and] ‘other short term liabilities’ of U.S. banks to foreign banks went up \$1.6bn
    - ▶ It is no coincidence that the sum of the last two numbers is so close to the first number. ... *These bookkeeping operations have affected the statistics far more than the realities.*”
  - ▶ Suppose we measure the average interest rate on all bank liabilities
    - ▶ straight average or weighted? (I don't know)
    - ▶ want the rate that is most relevant for the (aggregate) Euler equation
  - ▶ How large would the pass-through of monetary policy be?
    - ▶ Friedman seems to think it is far from zero
    - ▶ could it be close to 40%? Or would it be well below?
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# Timing

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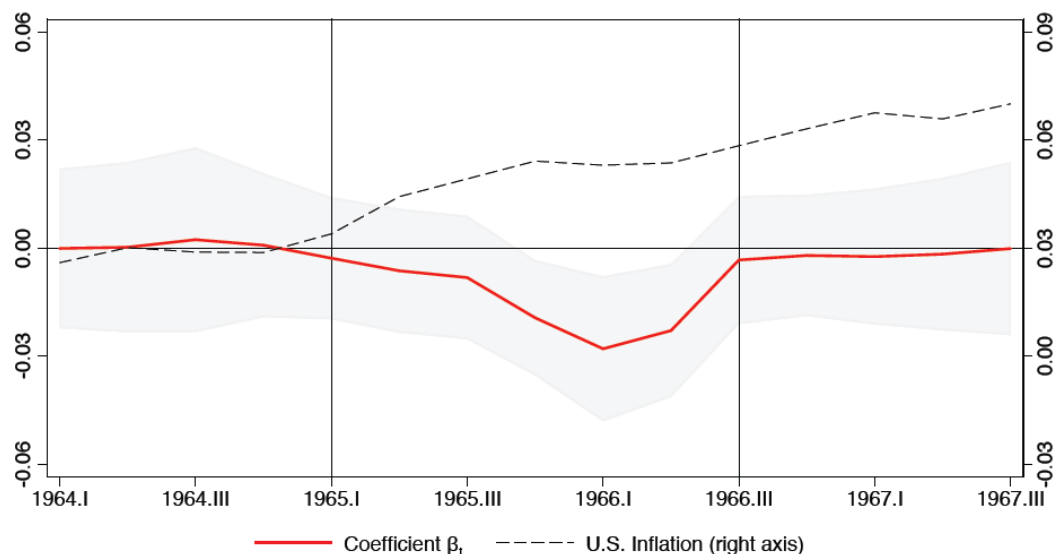
- ▶ Setting up Euro-dollar accounts and other workarounds takes time
  - ▶ particularly in the early part of the period ...
  - ▶ substantial uncertainty about future path of interest rates, Reg. Q ceiling
- ▶ Even if monetary policy was being passed through to “effective” deposit rates ...
- ▶ ... perhaps the process took significantly *longer* than usual
- ▶ In other words:
  - ▶ to the extent Reg. Q did not prevent the pass-through of monetary policy
  - ▶ ... perhaps it was *delayed*

Q: If pass-through was delayed, by how long?

- ▶ would this delay be sufficient explain the rise in inflation?

# Lags?

- ▶ We think of monetary policy as working with “long and variable lags”
- ▶ Effects here seem to appear surprisingly quickly
  - ▶ ceiling expanded to S&Ls in 1966 → easing of monetary policy
  - ▶ inflation in S&L-dominated areas increases instantly



- ▶ Is this reaction implausibly fast?
  - ▶ perhaps not because the change was largely anticipated?

# Conclusion

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- ▶ It is easy to think of reasons Reg. Q should not have mattered much
  - ▶ created some distortions, but banks largely found ways around it
  - ▶ for this reason, it is largely a footnote in discussions of the 60s and 70s
- ▶ But ... the empirical results in the paper seem quite robust
  - ▶ seems like something was going on
- ▶ Presents an interesting challenge to theory
  - ▶ suppose we accept that Reg. Q kept deposit rates artificially low
  - ▶ and other products are imperfect substitutes for deposits
  - ▶ what would standard macro theories predict?
- ▶ Not obvious that standard models would predict stagflation
  - ▶ what can macro theory “learn” from these empirical results?