

# A brief discussion of Emergence and Fragility of Repo Markets

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# What is the broad agenda?

- We want to understand the Repo market because
  - ① It is a flexible funding source and allows rehypothecation  
(→ it is here to stay)
  - ② It (Triparty system) broke down
- Need to understand micro-foundations of trade if we want to “design” a better market and/or regulate.

## The Question in this paper

- Why would two period investors prefer collateralized short term lending over buying long term bonds and then selling them next period?
- No uncertainty about the economy etc. to drive the choice —> trading frictions.
- Part of a bigger set of questions in finance: e.g. questions of what causes the term structure.

- Cash investors are born today and endowed with \$; they eat this tomorrow.  
→ Only care about tomorrow's consumption.
- Riskless technology  $(1+r)$  or one unit of bond which pays off  $d$  each period.  
→ these real cash flows have to be split between the agents.
- Solution describes various ways in which these cash flows can be allocated using market instruments:
- Choices: invest in T-bills or buy the (bond) and sell it tomorrow or buy a bond from a specific dealer and enter into a repo with him.  
→ Would also work with options etc. etc.

- Dealers enter into repos — they will buy them at a low price tomorrow, so they sell them at a low price today.  
→ Repo is a commitment to deliver cash tomorrow.
- Markets are only viable if other people participate: Multiple equilibria  
→ interpreted as fragility  
→ Policy implications

- Prices are set by Nash bargaining, so the outside option for each of these types is important.
- The type of the cash seller (who has long term bonds) is known in the bond market.
  - In particular, he cannot hire an intermediary to trade on his behalf, or even take out a loan against his bond collateral.

# Policy implications are not unique

- 1 Enforce anonymity in markets
- 2 Allow intermediaries to manage portfolios/provide annuities.
- 3 Hire traders of last resort.
- 4 Design a centralized bond market.

- Sensible framework  
(outside option intuition is elegant.)
- Might need a bit more before we start redesigning trading systems
- Might be useful to think about what is different about triparty repo (i.e., what happens if the clearing bank goes bankrupt.)