

Discussion of:

Competition and Stability in Banking: A New World for Banking Policy?

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The views expressed are my own and do not reflect those of the FRBNY or the Federal Reserve System.

The Question

- How does competition affect stability of the banking system?
 - timely question with important implications
- What are the mechanisms at work?
 - paper goes through theory and evidence
- What are the implications for banking regulation ...
 - in normal times?
 - during a crisis?

- Paper provides an excellent overview and synthesis of the literature
- Examines two channels through which competition can affect stability
 - liability side: makes a bank more susceptible to a run
 - asset side: affects bank's investment decisions
- I will focus my comments on the liability side
 - illustrate the argument in a simple model
 - then comment on implications

Competition and Bank Runs

- A simple model based on Diamond & Dybvig (1983)
- 2 periods, $t = 1, 2$
- Depositors' preferences:

$$\left\{ \begin{array}{l} u(c_1) \\ u(c_1 + c_2) \end{array} \right\} \text{ if } \left\{ \begin{array}{l} \text{impatient} \\ \text{patient} \end{array} \right\}$$

- type is revealed at $t = 1$; fraction π will be impatient
- Two assets:

	<u>Return at $t = 1$</u>	<u>Return at $t = 2$</u>
liquid	1	1
illiquid	$1 - \tau$	$R > 1$

- Banks offer demand deposit contracts
 - depositors receive c_1 if they withdraw early, c_2 if they wait
- Imperfect competition:
 - a bank's depositors have outside option \bar{u}
 - higher $\bar{u} \approx$ more competition

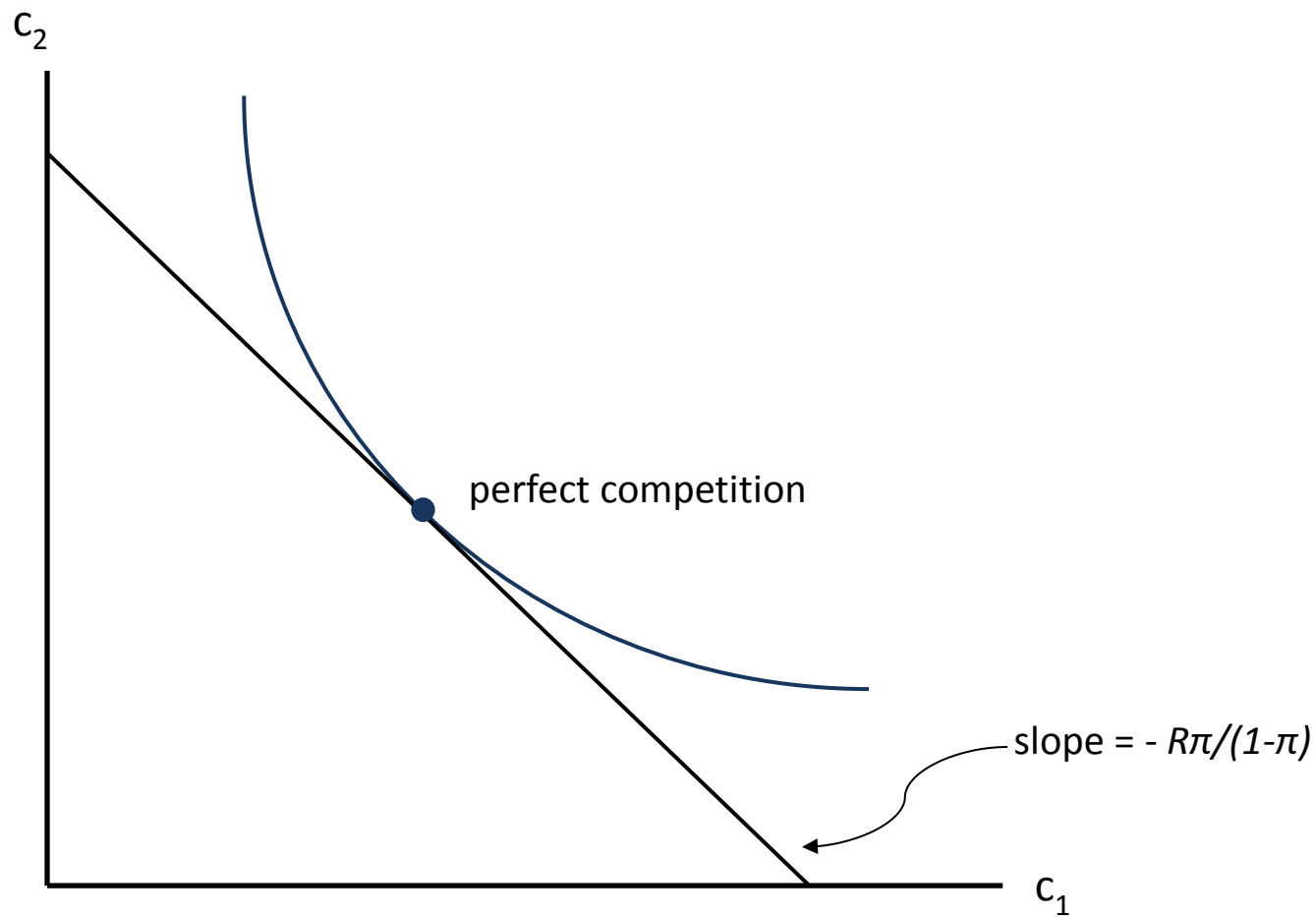
- Bank's profit

$$R(1 - \pi c_1) - (1 - \pi) c_2$$

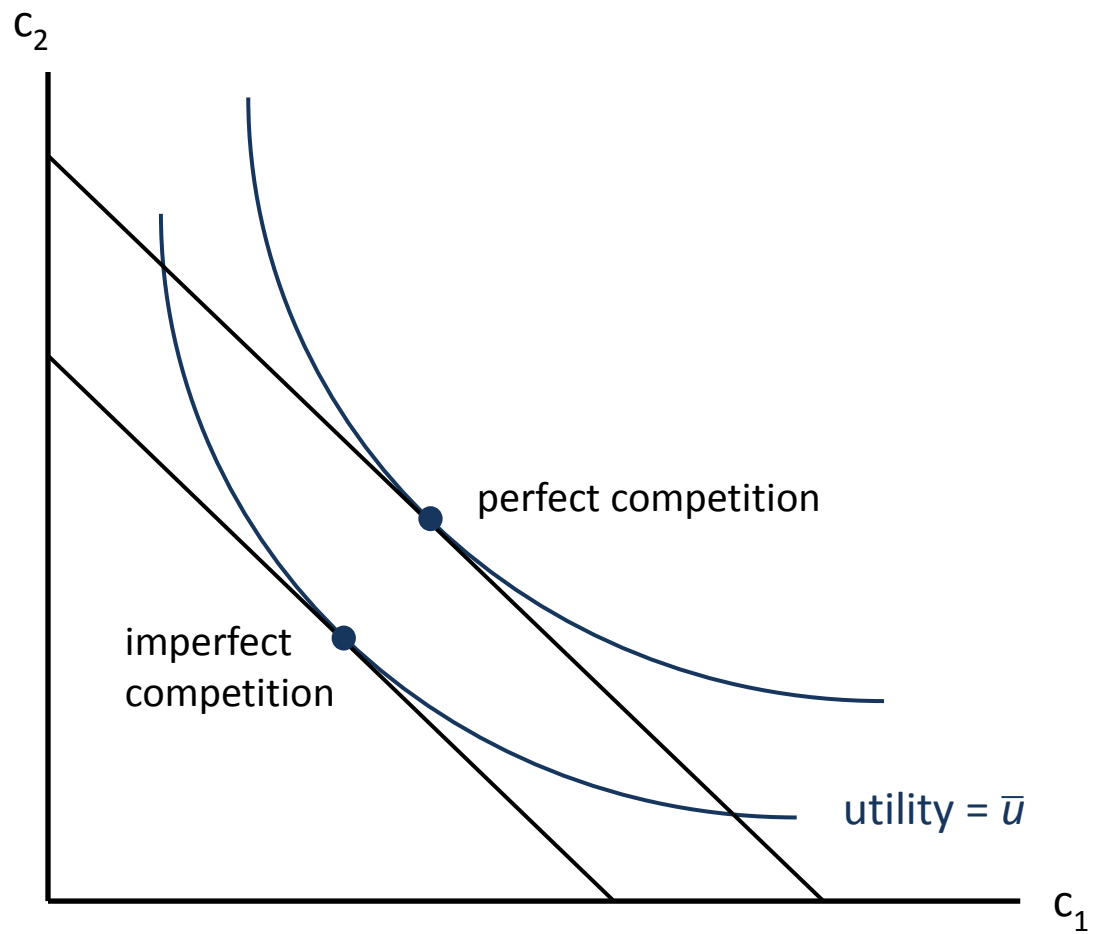
- Bank maximizes profit subject to

$$\pi u(c_1) + (1 - \pi) u(c_2) \geq \bar{u}$$

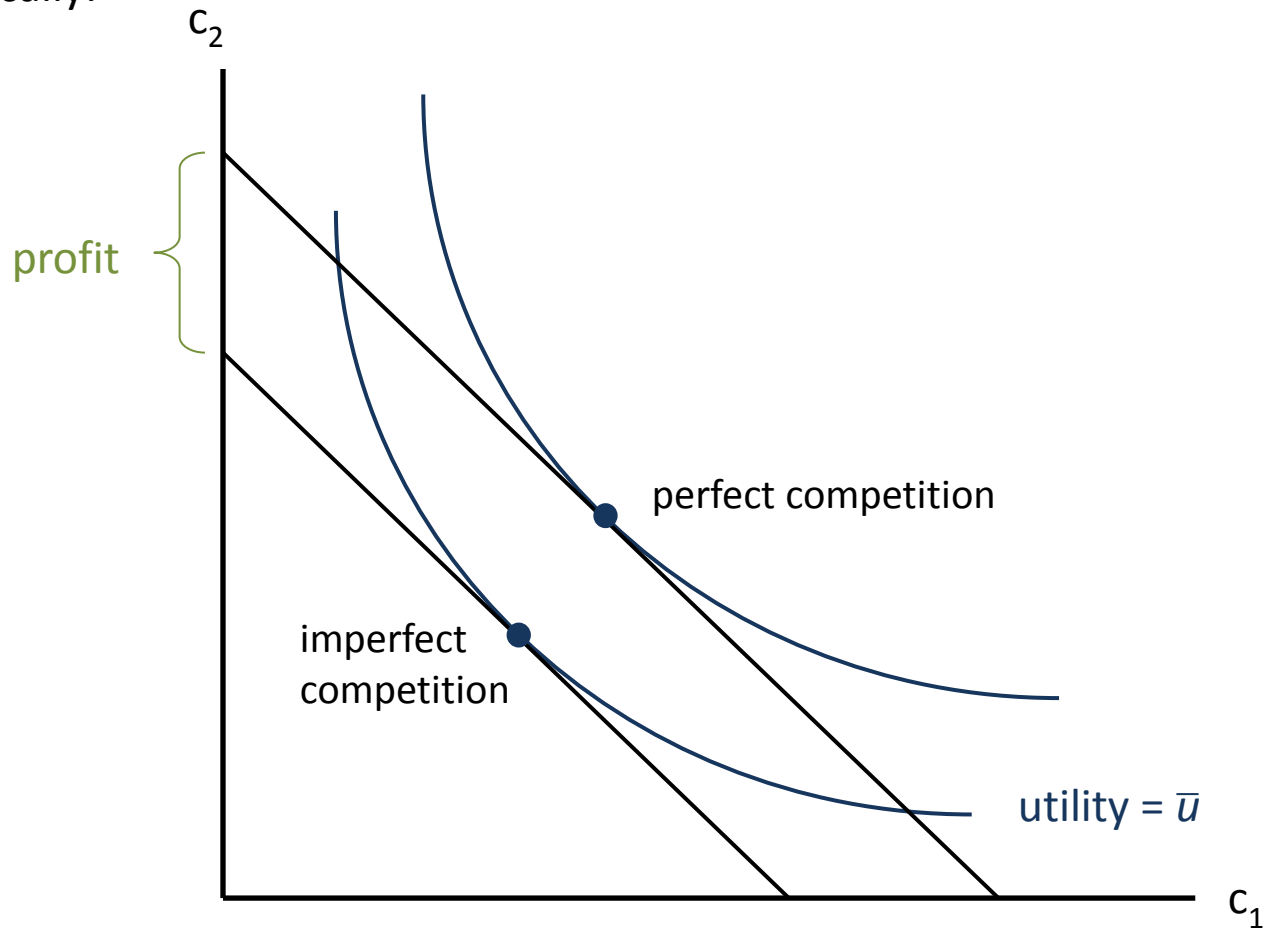
Graphically:



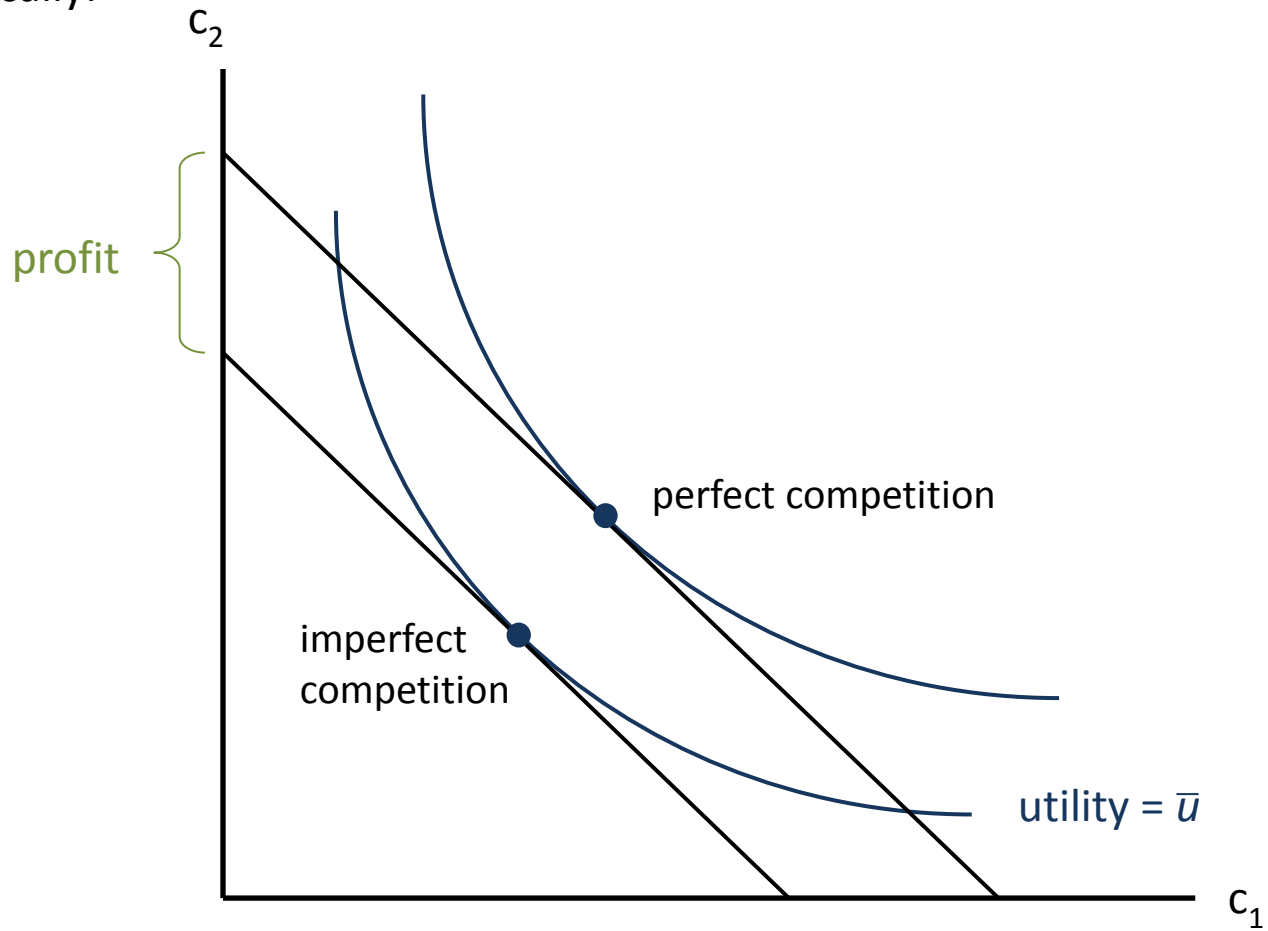
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Less competition \rightarrow lower c_1 and c_2 , higher profit

- The bank is susceptible to a self-fulfilling run if

$$c_1 > \pi c_1 + (1 - \tau)(1 - \pi c_1)$$

or

$$1 > \pi + (1 - \tau) \left(\frac{1}{c_1} - \pi \right)$$

- RHS is strictly decreasing in c_1
 - ⇒ increased competition makes this more likely to be satisfied
- Intuition: profits are a buffer against unexpected withdrawals
 - competition shrinks this buffer; leaves bank more vulnerable
 - note: profit and bank capital are equivalent here

What should a regulator do?

- Deposit insurance can (usually) prevent runs, but ...
 - exacerbates moral hazard problem on the asset side

In principle:

- Use risk-sensitive deposit insurance
 - design to offset moral-hazard effects
- Combine with risk-based capital requirements
 - offset externalities caused by systemic effects

In other words:

- Appropriate (risk-sensitive) regulation can remove the tradeoff between competition and stability

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In practice:

- Risk-sensitive regulation requires regulators to assess and *codify* risk
- Codification opens the door to regulatory arbitrage
 - people care independently about the asset's rating (think of "AAA" assets)

- If risk-sensitive regulation is imperfect, limiting competition may be a (partial) substitute
 - a blunt instrument to be sure, but perhaps useful nonetheless
 - might want some risk-sensitive regulation, some limits to competition
- Interesting point; potentially quite important
- Arguing against competition makes me uncomfortable, but ...
 - now is certainly a time for thinking broadly

Comments

- 1) How broadly should we think of this analysis as applying?
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 - answer has important implications for regulatory reform

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- Only commercial banks? all financial intermediaries?
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2) Should not underestimate the benefits of competition

- Danger following a crisis is sometimes too much reaction rather than too little
- Dynamic efficiency and innovation is important
 - compare online banking with cable TV service

3) How are banks different from General Motors?

- Some of the arguments above would apply to GM as well
 - less competition would have increased (short-term) profits
 - possible coordination failure among customers
 - large social cost of (disorderly) failure, etc.
- Good test for any argument that banks are special
 - paper partially addresses this issue; could do more

4) Time-consistency is a serious issue

- Paper discusses how policy has changed during the crisis
 - allowing mergers that previously would have been rejected, etc.
 - market participants anticipate these reactions to some degree
 - need to incorporate these effects into our models
- See recent work on the Diamond-Dybvig model with limited commitment by policy makers
 - Ennis and Keister (2009)
 - shows how public intervention can be a *source* of instability