

Safe Asset Scarcity and Monetary Policy Transmission By Benoit Nguyen, Davide Tomio, and Miklos Vari

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Big picture: Rate hikes and repo rates in the Euro area



BrokerTec, S/N, repo rates below -1.0% truncated for readability

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Specialness: a structural feature of the Euro area money market



Data source: BrokerTec, S/N, specialness spreads truncated at 1 ppt for readability.

- High specialness in 2022: ~40 bps for DE!
- Decline in specialness during 2022/23 (many factors: APP reduction of reinvestments? changing investor base? securities lending facilities, Deutsche Finanzagentur? ...)

This paper: How does monetary policy pass-through work in this environment?

- First-order question!
- -Main findings:
 - Scarcity of government bonds reduces (delays) the transmission of rate hikes.
 - For July 2022 hike (50 bps): bond with a specialness premium of 60 bps → increase in rates only by 28 bps.
 - Measurement: Transmission is measured in a window of 5 day around DFR change.
 - Similar effects for other rate hikes in 2022, but also notable differences in magnitude.
 - Lower pass-through is also reflected in the cash market (yields).
 - Evidence that pass-through improves with repo market participation (special
 - general collateral arbitrage).

Presentation outline

- 1. Big picture and summary of results
- 2. Replication exercise
- Zooming in: The rate hikes in event time.
 Does scarcity impair or delay the transmission of monetary policy?
- 4. Discussion on possible mechanisms

Replication of main result

Replication exercise for the July 22 rate hike:

- BrokerTec (SC) data (countries: DE, ES, FR, IT), market segment: S/N
- Timing convention: settlement date, event window: +/-5 business days
- Caveats: No coverage of bilateral transactions, poor coverage of Italian sovereigns.

	(1)	(2)
	Dep. Variable: Pass-through	
Specialness	-0.46***	-0.38***
	(-5.39)	(-3.61)
Constant	0.96***	0.94***
	(66.67)	(51.91)
R2	.2111	.2695
Ν	253	253
Country fixed effects	No	Yes

Questions to answer with MMSR: Are there notable differences between ...

... CCP and bilateral transactions? ... repo tenors? counterparty sectors?

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Rate hikes in event time



- Surprising reversal at event time t = 2 (-10 bps for DE!)
- After how many days do repo rates convergence to DFR change? (speed of adjustment)

Rate hikes in event time (cont'd)



- Similar pattern: first "reversal", then (faster) convergence to DFR change.

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Rate hikes in event time (cont'd)



- 5 day event window overlaps with end-of-year effect.
- Note: Also here convergence to DFR change after approx. 15 trading days.

Rate hikes in event time: Summary

- Speed of adjustment surprisingly slow (in particular for July 2022).
- Speed of adjustment seems to differ across rate hikes.
- -For all rate hikes: Interesting reversal pattern at t = 2
- This may look different in the MMSR sample (especially for bilateral transactions).
- Speed of adjustment as an additional measure?
- How does the effect for yields evolve over time?
- For longer horizons one needs to properly control for other demand/supply factors in the repo market (e.g. CTD, on-the-run status, re-issuance phase, end-of-quarter effects ...)
- The horizon at which monetary policy transmission is delayed is key for any policy conclusions and the economic magnitude of funding costs.
- -For the effect of specialness on funding costs see also Tischer (2021).

Mechanism: What can we learn from different rate hikes?

- Despite similar levels of scarcity in 2022, there are notable differences across rate hikes.
- The effect seems most pronounced in July.
- How does pass-through with respect to specialness behave during 2023? (lower, but still sizable levels of specialness)

	(1)
	$\Delta Spec_i$
July x $Specialness_i^{Bef}$	0.147***
	(3.85)
Sept x $Specialness_i^{Bef}$	0.130**
	(2.27)
$Oct \ge Specialness_i^{Bef}$	-0.00444
	(-0.07)
Dec x $Specialness_i^{Bef}$	0.0832^{*}
	(1.95)
ISIN FE	
Time FE	Yes
Adj. R2	0.10
Obs	1295

Mechanism: Hedging demand

- Following monetary policy shocks, the demand for hedging against further rate hikes may also increase.
- So far, this mechanism is not tested in the paper.
- Possibly you could exploit the variation in rates hikes over time, using monetary policy shocks of Altavilla et al (2019).
- Does repo imbalance (e.g. used in Corradin & Maddaloni, 2020) as a proxy for the demand in repo markets from short sellers – increase following a positive monetary policy shock.
- -And, does this influence transmission?

Mechanism: Exploit heterogeneity at dealer-customer level

- Already in the paper: Analysis of pass-through at the dealer-customer-ISIN level.

- Saturated regression: Even within dealer-customer specialness reduces pass-through.
- Additionally, you could also exploit the heterogeneity at the dealer-customer level using interaction terms.
 - Is the pass-through with respect to specialness more/less pronounced ...
 - ... for centrally-cleared or for bilateral transactions?
 - ... when dealing with less-sophisticated counterparties?
 - Possibly, this could allow you to disentangle market power explanations from lack of access to the DFR, looking at the following difference:
 - Dealer customer (bank, access to DFR)
 - Dealer customer (non-bank, no access to DFR)

Conclusion

-Very important and interesting paper!

- More details on how the delay of monetary policy transmission evolves in event time would be useful.
- How does specialness affect pass-through over the entire tightening cycle?
- -Utilize MMSR's dealer customer data to test possible mechanisms.
- -Good luck with the paper!