



Liquidity in Canadian futures markets during the COVID-19 crisis

26 January 2021



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Do proprietary traders continue to provide liquidity in a crisis?

Historically, banks kept orderly fixedincome markets.

• They have a stake in doing so: relationships and contracts.

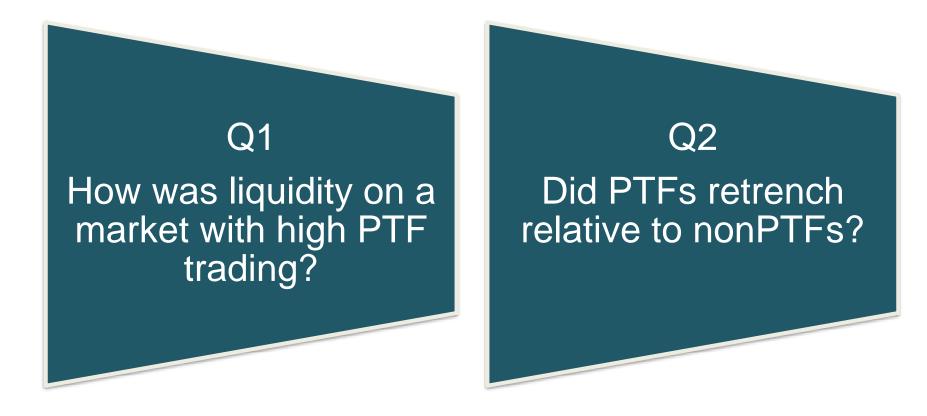
Listed derivatives became more electronic 2010–2020.

 Other core markets could be headed this way. This means more "proprietary electronic trading firms" (PTFs)

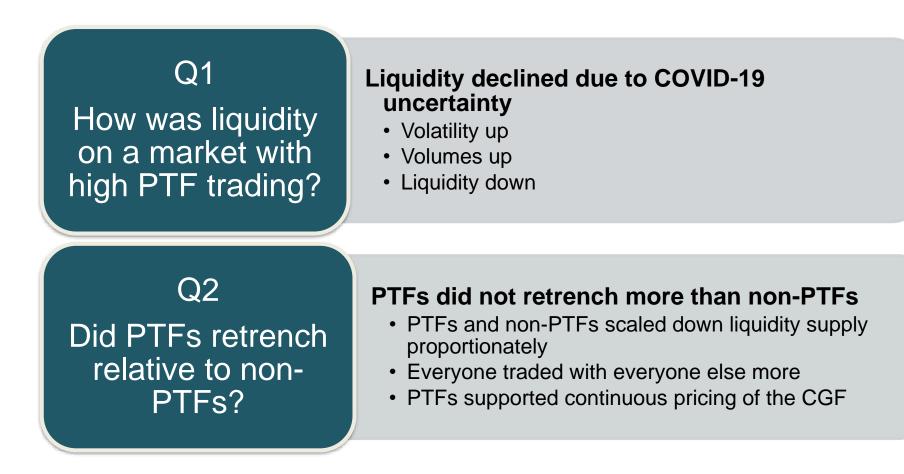
• Are we OK with their intermediation from a finstab perspective?



A case study: The COVID-19 crisis on MX futures

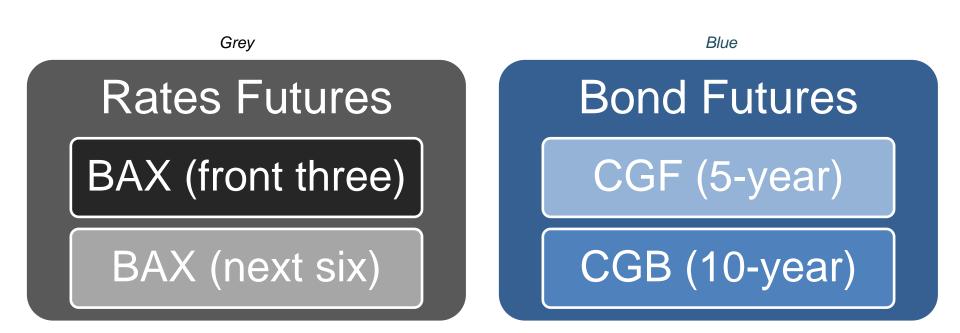


We find positively for PTF intermediation





For viewing ease, everything is colour-coded



¹ 'Front three' stands for the three BAX contracts with the nearest expiration dates.

² 'Next six' stands for the six BAX contracts with the nearest expiration dates after the front three.



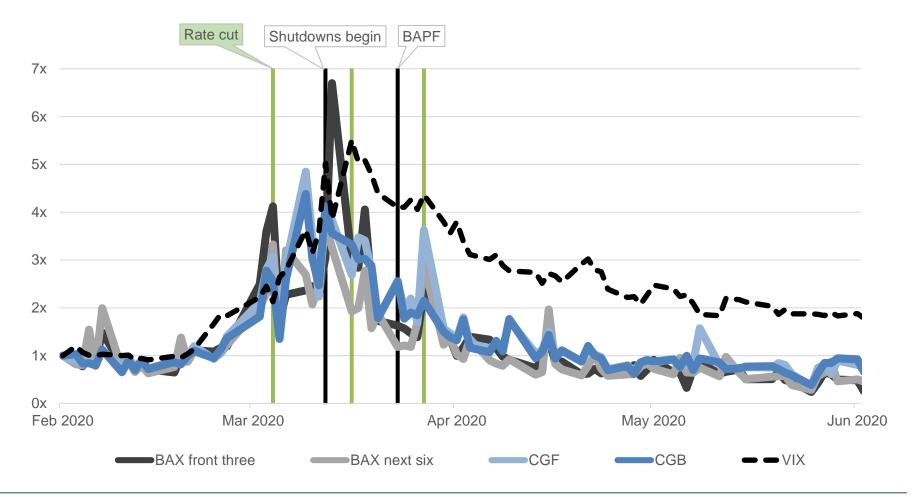


How was liquidity on a market with high PTF trading?

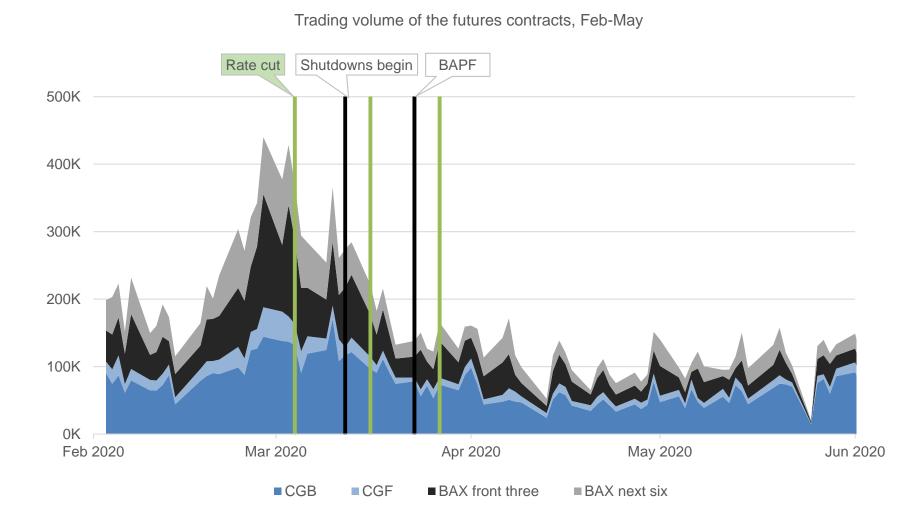
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The pandemic and the policy responses created market-wide uncertainty

Volatility of fixed-income derivatives and the VIS index, Feb-May



Uncertainty created demand for hedging

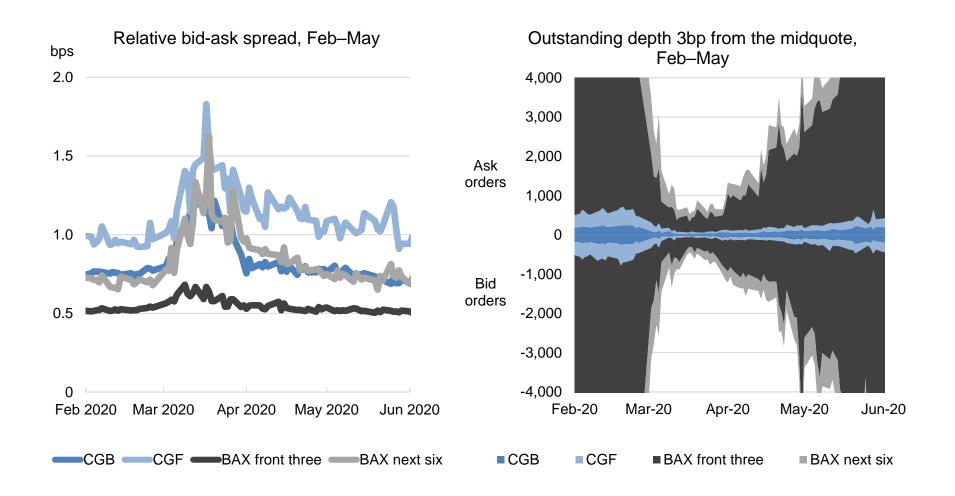


Confidential - For Discussion Only



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Transactions costs rose





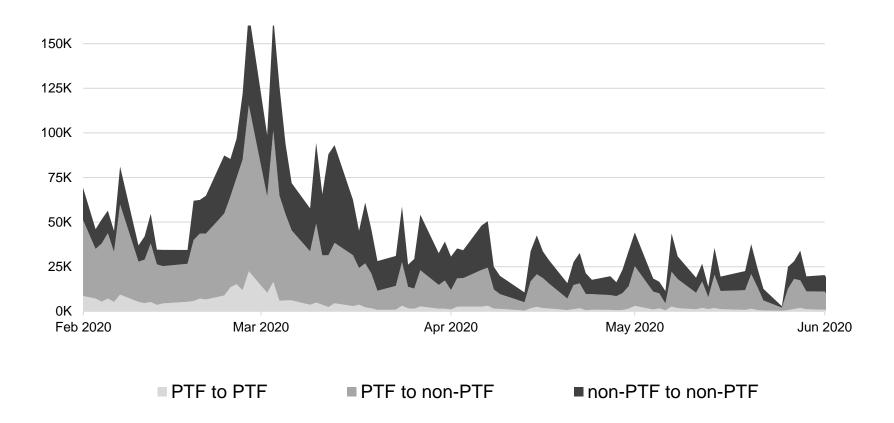


Did PTFs retrench relative to non-PTFs?

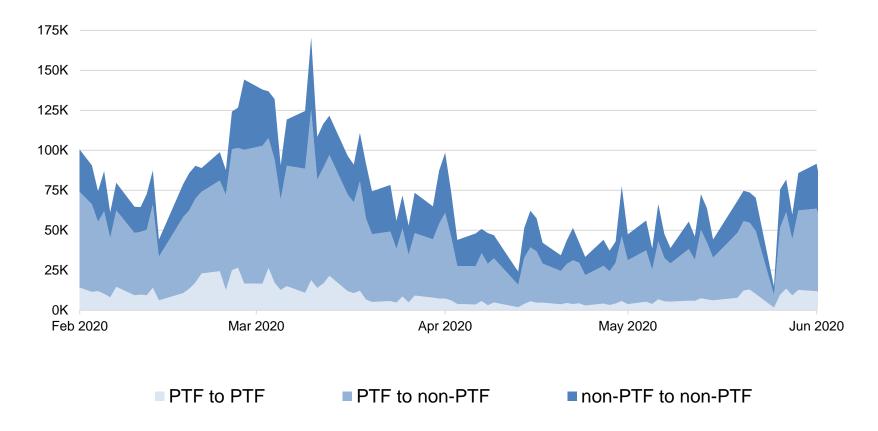


Trading increased within and across types

Trading volume by counterparty pairing for the front three BAX



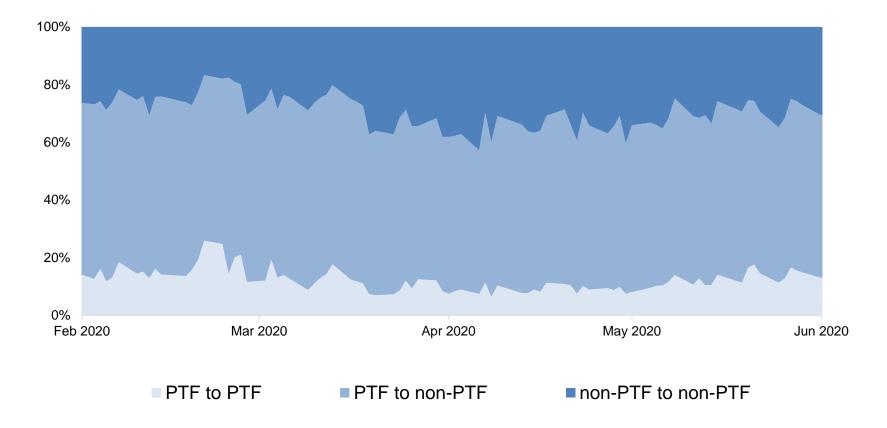
Trading increased within and across types



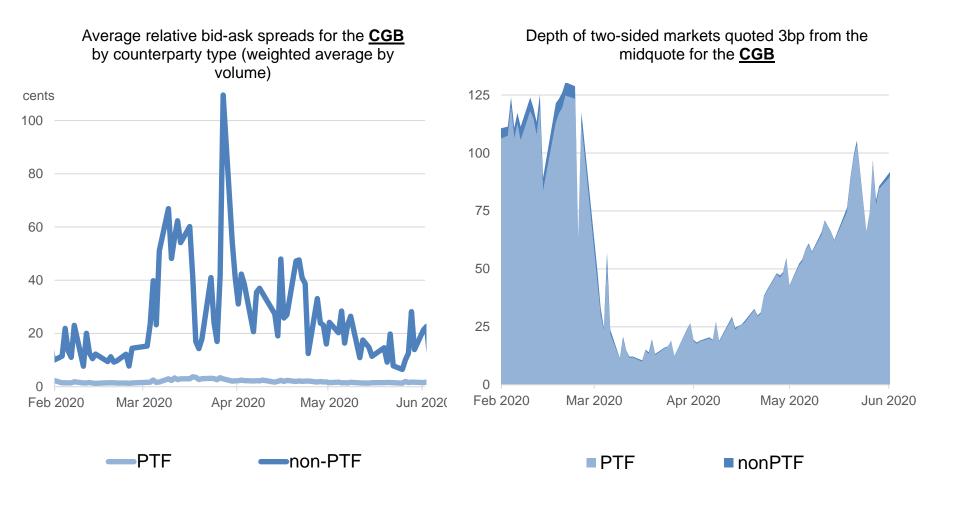
Trading volume by counterparty pairing for the CGB, Feb-May

PTF shares were fairly stable

Trading volume shares by counterparty pairing for the CGB, Feb-May



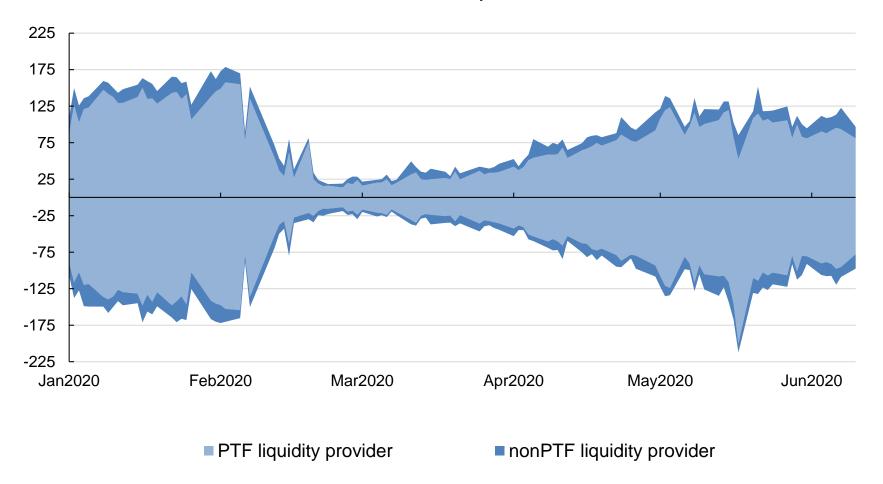
PTFs offered tighter spreads and essentially all the two-sided depth near the midquote





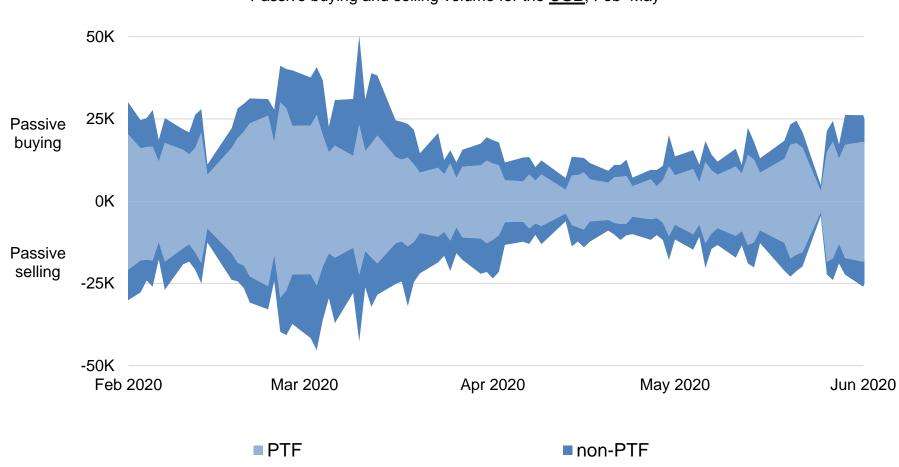
NonPTFs offered some one-sided depth

Depth (not two-sided) quoted 3bp from the midquote <u>by "liquidity provider" accounts</u> for the CGB, Feb–May





NonPTFs were still passively trading!



Passive buying and selling volume for the CGB, Feb-May

Key takeaways and implications

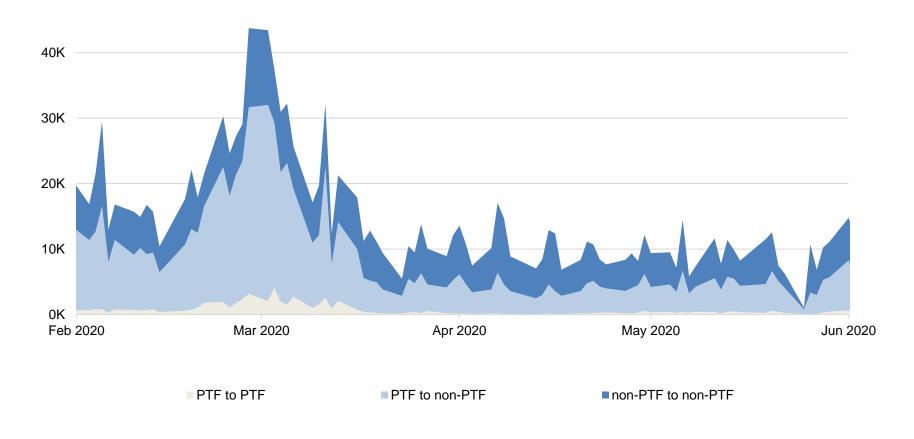
- PTFs and non-PTFs were equally "scared."
 - They scaled down proportionately with volatility.
- Different business models may allow them to serve market in different ways.
- ✤ No reason to think PTFs make markets less stable.
 - May even be good for emerging products

Appendix



Trading increased within and across types

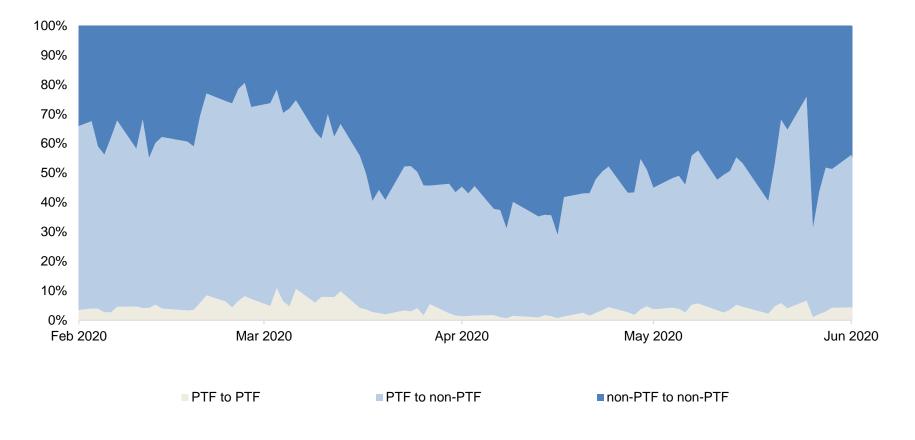
Trading volume by counterparty pairing for the <u>CGF</u>, Feb–May





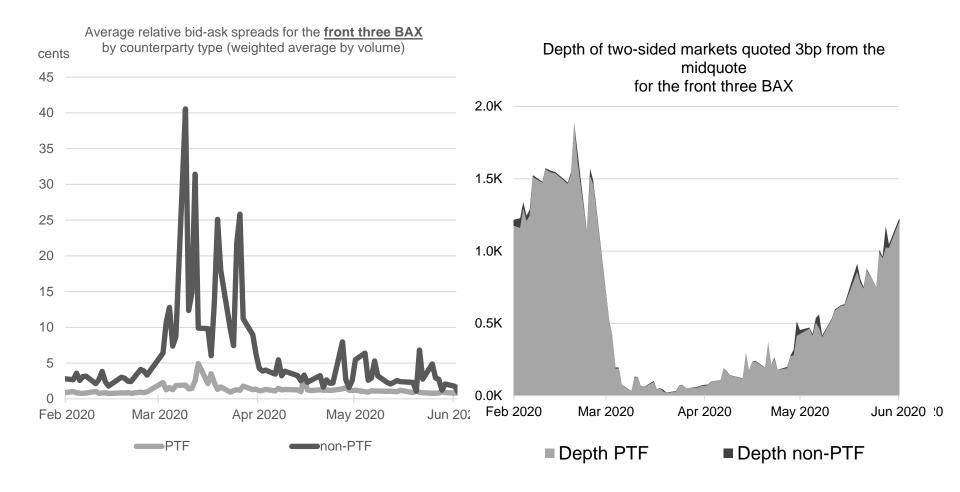
PTF shares increased then decreased

Trading volume shares by counterparty pairing for the CGF, Feb-May



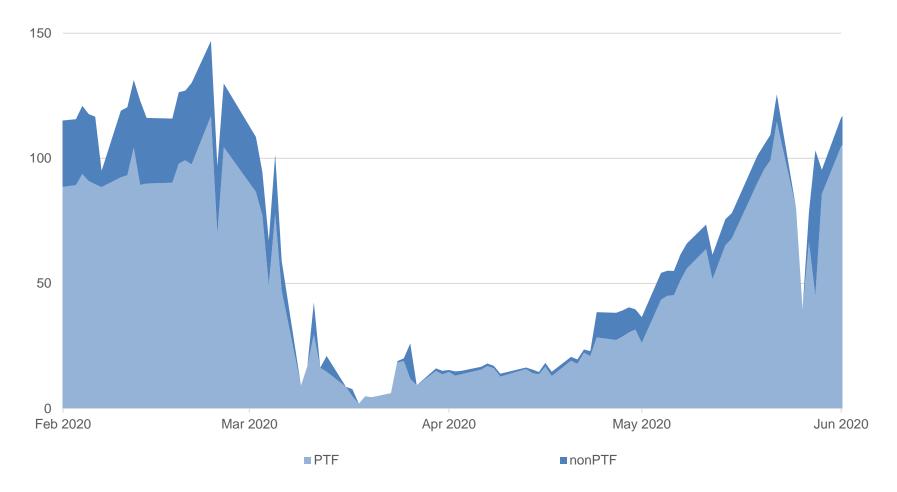


PTFs offered tighter spreads and essentially all the two-sided depth near the midquote



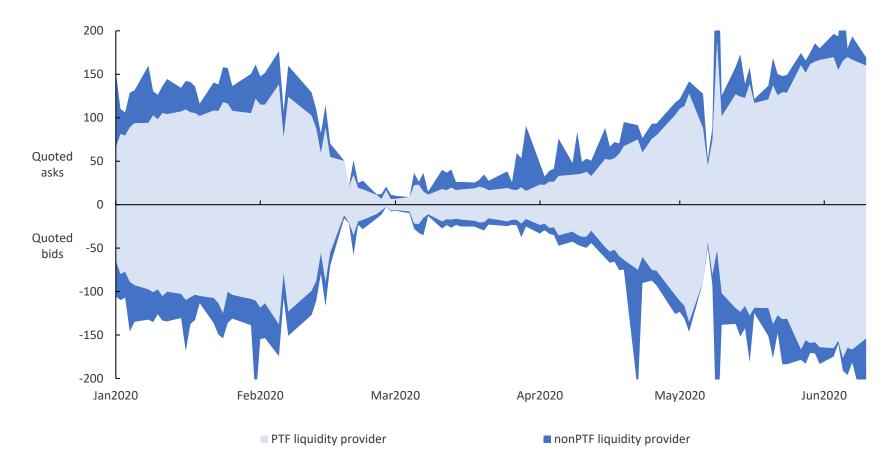
PTF depth may have kept the CGF priced

Depth of two-sided markets quoted 3bp from the midquote for the CGF, Feb - May



NonPTFs offered some <u>one-sided</u> depth

Depth (not two-sided) quoted 3bp from the midquote by "liquidity provider" accounts for the CGF, Feb - May





NonPTFs were still passively trading!

