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Balance Sheet Interlinkages and Macro-Financial Risk Analysis in the Euro Area

ECB Working Paper No. 1124

48 Pages
Posted: 11 Dec 2009

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Date Written: December 7, 2009

Abstract


The financial crisis has highlighted the need for models that can identify counter-party risk exposures and shock transmission processes at the systemic level. We use the euro area financial accounts (flow of funds) data to construct a sector-level network of bilateral balance sheet exposures and show how local shocks can propagate throughout the network and affect the balance sheets in other, even seemingly remote, parts of the financial system. We then use the contingent claims approach to extend this accounting-based network of interlinked exposures to risk-based balance sheets which are sensitive to changes in leverage and asset volatility. We conclude that the bilateral cross-sector exposures in the euro area financial system constitute important channels through which local risk exposures and balance sheet dislocations can be transmitted, with the financial intermediaries playing a key role in the processes. High financial leverage and high asset volatility are found to increase a sector's vulnerability to shocks and contagion.

Keywords: Balance sheet contagion, financial accounts, network models, contingent claims analysis, systemic risk, macro-prudential analysis

JEL Classification: C22, E01, E21, E44, F36, G01, G12, G14

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63 References

1.

V Acharaya , L Pedersen
Asset Pricing with Liquidity Risk
Journal of Financial Economics , volume 77 Posted: 2005
Crossref (https://doi.org/10.1016/j.jfineco.2004.06.007)

2.

T Adrian , H S Shin
Liquidity and Financial Contagion
Banque de France Financial Stability Review , issue 11 Posted: 2008

3.

Adrian , Brunnermeier
CoVaR Posted: 2009

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4.

F Allen , D Gale
Economic Contagion
Journal of Political Economy , volume 108 Posted: 2000

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