

Accepted Manuscript

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PII: S0022-0531(15)00036-8
DOI: <http://dx.doi.org/10.1016/j.jet.2015.02.003>
Reference: YJETH 4393

To appear in: *Journal of Economic Theory*

Received date: 30 September 2013
Revised date: 26 January 2015
Accepted date: 5 February 2015

Please cite this article in press as: H. Gersbach et al., The macroeconomics of Modigliani-Miller, *J. Econ. Theory* (2015), <http://dx.doi.org/10.1016/j.jet.2015.02.003>

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The Macroeconomics of Modigliani-Miller*

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First version: November 2009

This version: January 2015

We examine the validity of a macroeconomic version of the Modigliani-Miller theorem. By this, we mean that different capital structures can occur in equilibrium and that all of them are associated with the same allocation of commodities and the same welfare. We develop a general equilibrium model with two production sectors, risk-averse households, and financial intermediation by banks. Banks are funded by deposits and (outside) equity and monitor borrowers in lending. Two sets of equilibria emerge when deposits are guaranteed by governments and bailouts are financed by non-distortionary taxes. These sets differ with regard to the debt-equity ratios of banks, investment in risky technologies, bank defaults, and whether first-best allocations are attained. Hence, the macroeconomic version of the Modigliani-Miller theorem fails to hold. Imposing minimum equity capital requirements, however, eliminates all inefficient equilibria and guarantees the validity of the macroeconomic version of the Modigliani-Miller theorem.

Keywords: Financial intermediation, banking, capital structure, Modigliani-Miller, general equilibrium, capital requirements

JEL Classification: D53, E44, G2

*We particularly benefited from valuable suggestions by the referees and editors. We would also like to thank Salomon Faure, Volker Hahn, Peter Howitt, Marina Iozef, Jean-Charles Rochet, O. Griffith Sexton, Eva Terberger, Jan Wenzelburger, and seminar participants at ETH Zurich, Academia Sinica, University of Macau, and Virginia Tech for helpful comments. This work was supported by ETH Research Grant ETH-06 10-2.

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