

Accepted Manuscript

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PII: S0022-1996(18)30020-5
DOI: doi:[10.1016/j.jinteco.2018.02.002](https://doi.org/10.1016/j.jinteco.2018.02.002)
Reference: INEC 3118

To appear in: *Journal of International Economics*

Received date: 7 August 2017
Revised date: 14 February 2018
Accepted date: 15 February 2018



Please cite this article as: Eijffinger, Sylvester C.W., Kobielarz, Michał L., Uras, Burak R., Sovereign Default, Exit and Contagion in a Monetary Union, *Journal of International Economics* (2018), doi:[10.1016/j.jinteco.2018.02.002](https://doi.org/10.1016/j.jinteco.2018.02.002)

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Sovereign Default, Exit and Contagion in a Monetary Union*

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February 24, 2018

Abstract

The euro area sovereign debt crisis is characterized by a simultaneous surge in the cost of borrowing for peripheral EMU countries following the Greek debt-trouble in 2008. We develop a model with optimal default and monetary-union exit decisions of a small open economy. Our model can account for the behavior of sovereign bond spreads in the eurozone with the arrival of the news of Greece potentially exiting the euro in the near future. In our theoretical framework, belonging to the monetary-union entails a strong exchange rate peg, which can be abandoned only if the country exits the union. Exit is costly and the cost of exit remains unknown until the first country leaves the union. The theoretical mechanism we explore reveals that while a high expected exit-cost could improve the credibility of a monetary union, uncertainty governing exit-cost realizations could make the monetary-union members prone to surges in interest rates when rumors of a member state exiting arise. We solve the model numerically and quantify that a Grexit-rumors type of shock can triple the default likelihood of an a-priori financially healthy member state. Our framework thus provides a novel and quantitatively important explanation for the eurozone crisis.

Keywords: contagion, monetary union, sovereign debt crisis, exit.

JEL Classification Numbers: F33, F34, F36, F41.

*For their suggestions and comments we would like to thank the editor, three anonymous reviewers, Anil Ari, Giancarlo Corsetti, Wouter den Haan, Michael Ehrmann, Andrea Ferrero, Pieter Gautier, Tommaso Monacelli, Louis Raes, Ctirad Slavik, Gonzague Vannoorenberghe, Harrie Verbon, Martin Wolf, Jean-Pierre Zigrand and the seminar participants at the ECB, Goethe University Frankfurt, Tilburg University, the EBC Junior Fellow Workshop, the SMYE in Lisbon, the RES Junior Conference and the ENTER Jamboree in Madrid for useful comments and discussions.

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