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Keynesian Dynamics and the Wage-Price Spiral: Identifying Downward Rigidities

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Abstract

We develop a constrained bivariate switching model to explore empirically the behavior of wage and price Phillips-curves for high- and low-inflation regimes. Using this switching regression technique with a structural simultaneous equations model of Phillips curves, we identify significant lower floors for wage and price inflation. We interpret these lower floors as the relevant downward rigidity for wages and prices. Such floors imply that the adverse real-wage adjustment mechanism that can be identified in the high-inflation regime may disappear in the low-inflation regime, where money-wage inflation and price inflation, and thus real-wage movements, may become rigid. Consequently, the economy may be stabilized then, but trapped in a long period of stagnation in such a low-inflation situation. Such properties of kinked wage and price Phillips-curves are thus important and could also be of help to break another important destabilizing feedback channel, the Fisher debt deflation mechanism, according to

which economies, in which highly indebted firms are unable to prevent price deflation, will experience severe crisis or even economic breakdown if the resulting deflationary spiral cannot be stopped.



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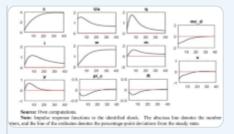
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References

Akerlof, G., Dickens, W. and Perry, G. (1996). The macroeconomics of low inflation. *Brookings Paper on Economics Activity*, **1**, 1–59.

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Akerlof, G., Dickens, W. and Perry, G. (2000). Near-rational wage and price setting and the long-run phillips curve. *Brookings Paper on Economics Activity*, **1**, 1–44.

Google Scholar

Beissinger, T. and Knoppik, C. (2000). Downward rigidity in west Germany earnings 1975–1995. *University Regensburg Discussion Paper, No. 344*.

Chen, P. and Flaschel, P. (2004). Testing wage and price phillips curves for the United States. *University Bielefeld, Center of Empirical Economics Discussion Paper*.

Chiarella, C. and Flaschel, P. (2000). *The Dynamics of Keynesian Monetary Growth: Macro Foundations*. Cambridge University Press, Cambridge, UK.

Google Scholar

Chen, P., Chiarella, C., Flaschel, P. and Semmler, W. (2004). Keynesian dynamics and the wage-price spiral. Estimating and analyzing a baseline disequilibrium approach. *UTS Sydney, Working Paper*.

Crawford, A. and Harrison, A. (2000). Testing for downward rigidity in nominal wage rates. *Working Paper*.

Davidson, R. and Mackinnon, J. (1993). *Estimation and Inference in Econometrics*, 1st edn. Oxford University Press, Oxford.

Google Scholar

Davidson, R. and McKinnon, J. (1981). Several tests for model specification in the presence of alternative hypotheses. *Econometrica*, **49**, 781–793.

Google Scholar

Fair, R. (2000). Testing the NAIRU model for the United States. *The Review of Economics and Statistics*, **82**, 64–71.

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Filardo, A. (1998). New evidence on the output cost of fighting inflation. *Economic Review*. Federal Bank of Kansas City, 33–61.

Flaschel, P. and Krolzig, H.-M. (2003). Wage and price Phillips curves. An empirical analysis of destabilizing wage-price spirals. *Center for Empirical Macroeconomics, Bielefeld University*.

Goldfeld, S. and Quandt, R. (1973). A Markov model for switching regressions. *Journal of Econometrics*, **1**, 3–16.

Google Scholar

Goodwin, R.M. (1967). A growth cycle. In C.H. Feinstein (ed.), *Socialism, Capitalism and Economic Growth*, 54–58. Cambridge University Press, Cambridge, UK.

Google Scholar

Hoogenveen, V. and Kuipers, S.K. (2000). The long-run effects of low inflation rates. *Banca Nazionale del Lavoro Quarterly Review*, **53**, 267–286.

Google Scholar

Kim, C.-J. and Nelson, C.R. (1999). State-Space Model with Regime Switching:

Classic and Gibbs-Sampling Approach with Applications, 1st edn. The MIT Press, Cambridge, MA.

Google Scholar

Judge, G. (1985). *The Theory and Practice of Econometirics*, 2nd edn. Wiley, New York.

Google Scholar

Laxton, D., Isard, P., Faruquee, H., Prasad, E. and Turtelboom, B. (1998).

MULTIMOD Mark III. The Core Dynamic and Steady-State Models. International Monetary Fund, Washington, DC.

Laxton, D., Rose, D. and Tambakis, D. (2000). The U.S. Phillips-curve: The case for asymmetry. *Journal of Economic Dynamics and Control*, **23**, 1459–1485.

Article Google Scholar

Phillips, A.W. (1954). Stabilisation policy in a closed economy. *The Economic Journal*, **64**, 290–323.

Google Scholar

Phillips, A.W. (1958). The relation between unemployment and the rate of change of money wage rates in the United Kingdom, 1861–1957. *Economica*, **25**, 283–299.

Google Scholar

Powell, A. and Murphy, C. (1997). *Inside a Modern Macroeconometric Model. A Guide to the Murphy Model*. Springer, Heidelberg.

Google Scholar

Rose, H. (1967). On the non-linear theory of the employment cycle. *Review of Economic Studies*, **34**, 153–173.

Google Scholar

Rose, H. (1990). *Macroeconomic Dynamics. A Marshallian Synthesis*. Basil Blackwell, Cambridge, MA.

Google Scholar

Stark, A. and Sargent, T.C. (2003). Is there downward nonminal wage rigidity in the Canadian phillips curve. *Working Paper of Department of Finance Canada*, 2003–01.

Schmidt, P. (1976). Econometrics. Marcel Dekker Inc., New York/Basal.

Google Scholar

Tambakis, D.N. (1998). Monetary policy with nonlinear phillips curve and asymetric loss. *Studies in Nonlinear Dynamics and Econoietrics*, **3-4**, 223–237.

Google Scholar

Tong, H. (1990). *Non-Linear Time Series: A Dynamic Approach*. Oxford University Press, Oxford/New York.

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