

**Discussion of
“The International Propagation
of News Shocks”
by
P. Beaudry, M. Dupaigne and F. Portier**

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Overview

- **Contributions:**
 - **Novel empirics and theory on international business cycle (IBC)**
- **Brief summary:**
 - **Empirical identification scheme and theoretical mechanism**
- **Some observations:**
 - **Closer link between empirics and theory**
 - **Role of risk sharing in IBC**

Key contributions

- **Important and growing literature on news shocks, both theoretical and empirical**
- **This very fine paper by Beaudry, Dupaigne and Portier (hereinafter BDP) extends their innovative and highly relevant work to open-economy:**
 - **Novel evidence on propagation of anticipated technological changes from US and Germany to Canada and Europe**
 - **Source of international business cycles / cross-country co-movements of macro aggregates**
 - **Theoretical framework consistent with both NBC and IBC**

The paper's empirical framework

- **VAR evidence based on same identification strategy as BP (AER, 2006):**
 - **Current signals on future technology level affect stock prices but are orthogonal to currently observed TFP**
 - **In small VARs BP (2006) show these shocks broadly similar to shocks explaining all of long-run variation in TFP (Galí, 1999)**
- **This paper: 3-variable VARs to show that these shocks generate economic expansions abroad:**
 - **M, and Y^* , I^* , C^* , N^* , X^* also increase**

The paper's theoretical framework: NBC

- **2-country extension of BP (JME, 2004) 2-sector model to account for IBC on top of NBC**
- **Preventing wealth effects from initially driving down I, N and Y:**
 - **Vertical structure with intermediate and final C,I production**
 - **K and L strongly complement in C production**
 - **Costly input reallocation between C,I intermediate production**

The paper's theoretical framework: IBC

- Trade in both (C,I) intermediate goods
- Same mechanism as NBC at the heart of IBC before news materializes as risk sharing high:
 - Foreigners also benefit from wealth effects of country-specific news
 - Generally difficult to generate IBC without global TFP shocks in neoclassical model
- Strong complementarity between domestic and foreign tradables yields IBC when TFP increases – BKK (1994,1995)

Some issues for discussion

- **Excellent work, nicely linking empirics and theory**
- **Why not making this connection a bit tighter?**
- **First, could shed more light on empirical support for the paper's propagation mechanism?**
 - **Many competing mechanisms with potentially different implications – e.g. role of preferences vs technology, adjustment costs, etc...**
- **Second, is assumed role of risk sharing in causing IBC warranted?**
 - **Full risk sharing at the heart of many puzzles in standard IRBC models**

The domestic dimension of news shocks

- **Which litmus tests for competing hypothesis?**
 - **Some emphasis on stock prices, but this is assumed to some extent in identification**
- **What predictions regarding other asset prices, like real interest rates?**
- **Or relative prices like intermediate consumption and investment, real wages?**
- **What about role of nominal frictions and monetary policy?**

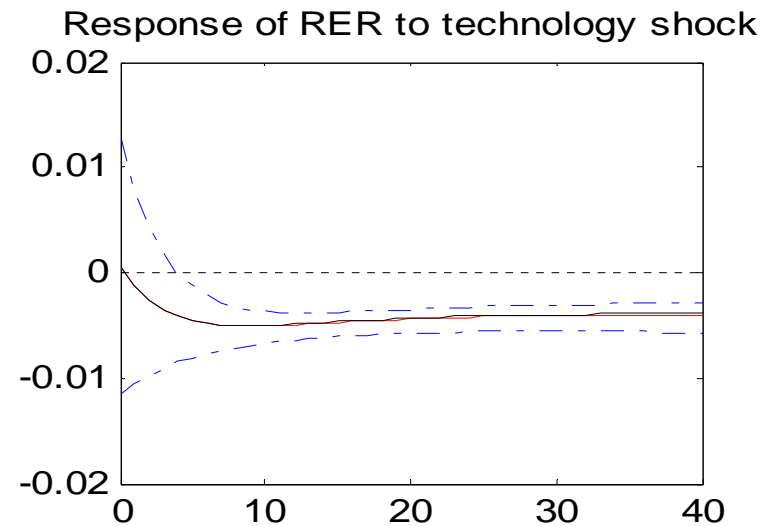
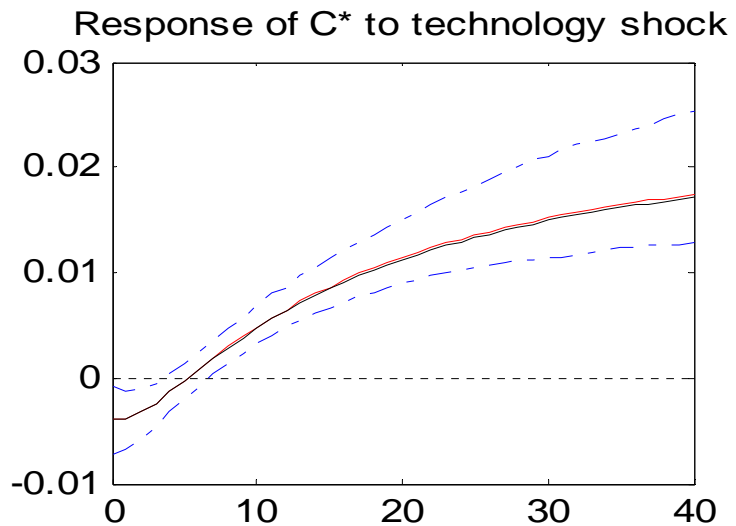
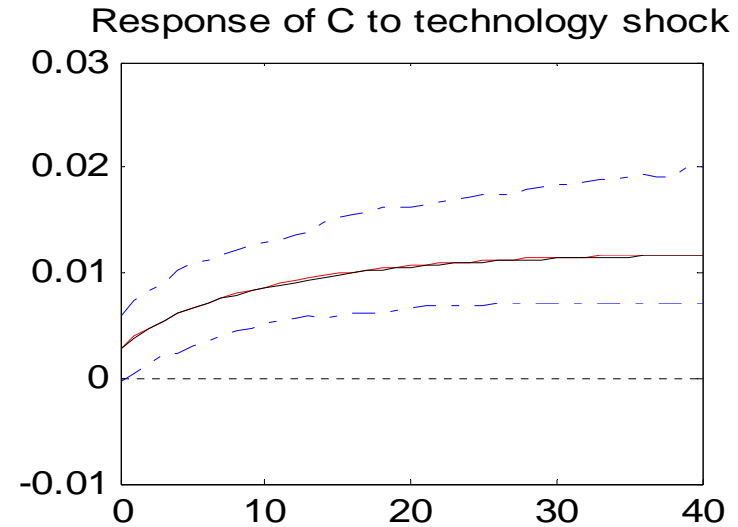
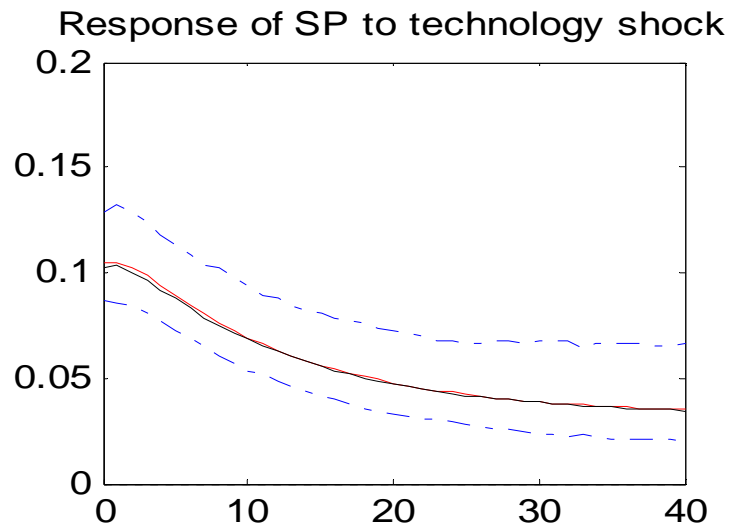
The international dimension of news shocks

- High risk sharing goes against IBC with TFP shocks – Y, I and N increase but Y^*, I^*, N^* decrease because of positive wealth effects
 - Even with high complementarity of tradables, $\text{corr}(C, C^*) \gg \text{corr}(Y, Y^*)$
- Propagation of news shocks hinges on high risk sharing – Foreigners expect to benefit from future technology boom in other country
 - With assumed preferences, real depreciation and $\text{corr}(C/C^*, \text{RER}) \gg 0$
- Yet strong unconditional evidence against this even between US, Canada: $\text{corr}(C/C^*, \text{RER}) \ll 0$

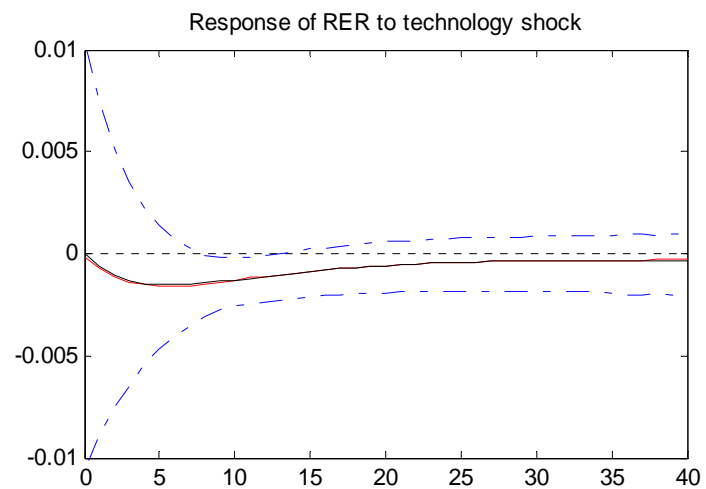
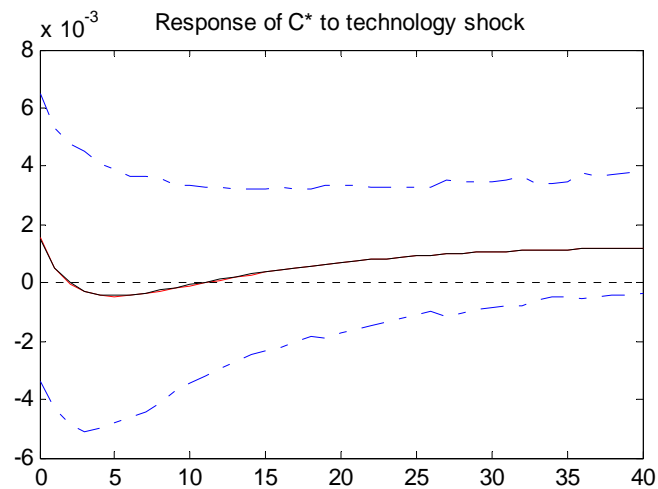
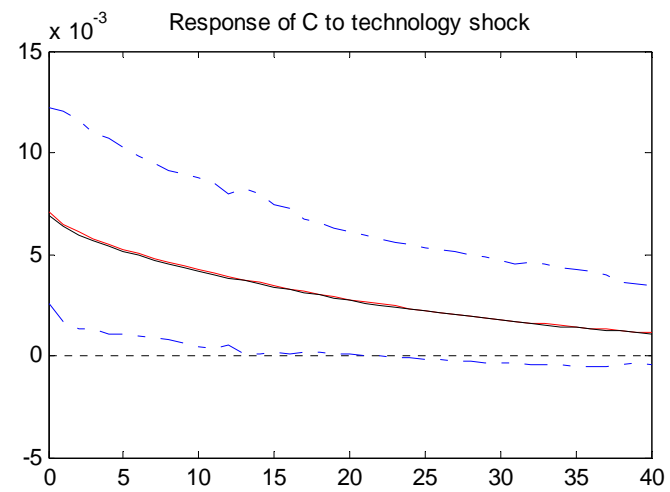
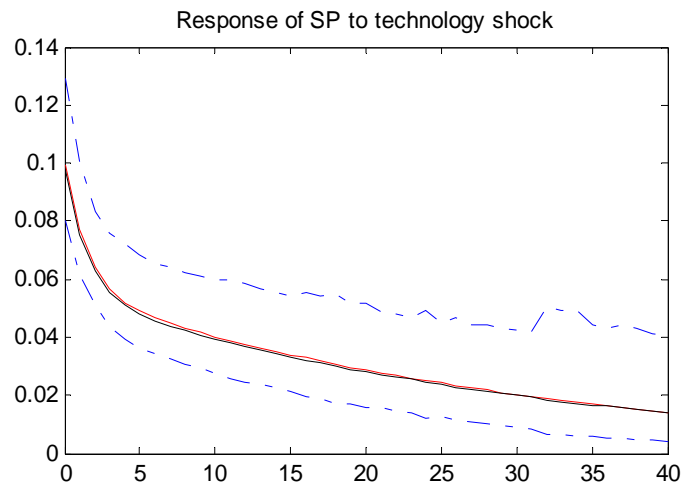
Int. dimension: Conditional risk sharing

- **Evidence against high risk sharing conditional on standard technology shocks is accumulating**
 - **Enders & Muller (2007), Neri et al. (2007), CDL (2006,2007)**
- **Consistent with domestic wealth effects much stronger than abroad**
- **What about news shocks? Some results from quick & dirty VAR exercise**
 - **US-Canada annual data 1960-2004 (1960-1996 with corrected TFP from Basu et al. (2007))**
 - **News shocks orthogonal to measured TFP – level-variables specification, 1 lag**

IRF with conventional TFP



IRF with BFK corrected TFP



Concluding remarks

- **Very nice paper, contributing to both empirics and theory of international business cycle**
- **Important and interesting to further explore the coherence between empirics and key theoretical predictions and implications**