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(Danthine & Kurmann, 2004; Rabanal & Ramirez,  
.2005)

(Danthine & Kurmann, 2004; Rabanal &  
.Ramirez, 2005)

$$s_t = s_t(w, r)$$

(Dibooglu & Enders, 2001;

.Lucke, 1998)

(1982) Kydland & Prescott

(Kydland & Prescott, 1982)

(2006) Moore & Pentcost

$$u(c_1, c_2, l_1, l_2) = \ln c_1 - (1 + \beta)^{-1} l_1^{1+\beta} + (1 + \theta)^{-1} [\ln c_2 - (1 + \beta)^{-1} l_2^{1+\beta}]$$

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" "  $l_1, l_2$  " "  $c_1, c_2$   
 $\theta$   
 $\beta$

Luciano & Manfredi

(2006)

$$c_1 + \frac{c_2}{r} = w_1 l_1 + \frac{w_2 l_2}{r}$$

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$w_1, w_2$   
 $r$

(1/β)

(Luciano & Manfredi, 2006)

$$\frac{l_1}{l_2} = \{w_1 / [w_2 (1 + \theta) r]\}^{\frac{1}{\beta}}$$

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(2005) Kandil  
CPI

GNP

(VAR)

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(Danthine & Kurmann, 2004)

GNP CPI

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(2001) Paul .

GNP CPI

$$LOIL = -7/4 + 0/75 LOIL(-1) + 1/4 LME(-1) - 0/3 LMW(-1)$$

(-0/66) (5/6) (0/84) (-0/86)

$$R^2 = 0/86 \quad F = 61/5$$

$$LME = 0/33 + 0/12 LOIL(-1) + 0/94 LME(-1) - 0/01 LMW(-1)$$

(1/24) (3/6) (25/12) (-3/17)

$$\bar{R}^2 = 0/97 \quad F = 490$$

$$LMW = -3/05 + 0/95 LOIL(-1) + 0/34 LME(-1) - 0/89 LMW(-1)$$

(-0/54) (1/42) (0/42) (-12/19)

$$\bar{R}^2 = 0/93 \quad F = 157$$

(1997) Gamber & Jouts .

LOIL

LOIL (-1)

Abraham & .

LMW LME

(1995) Haltiwanger

LMW(-1) LME(-1)

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$$LOIL = -10/6 + 0/72 LOIL(-1) + 2/7 LWE(-1) - 0/24 LWW(-1)$$

(-1/17) (5/5) (1/43) (-1/5)

$$\bar{R}^2 = 0/77 \quad F = 33/4$$

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$$LWE = -0/12 + 0/96 LOIL(-1) + 0/99 LWE(-1) - 0/14 LWW(-1)$$

(-0/063) (3/18) (23/25) (-3/8)

$$\bar{R}^2 = 0/96 \quad F = 240$$

$$LWW = -5/3 + 0/13 LOIL(-1) + 0/88 LWE(-1) + 0/84 LWW(-1)$$

(-1/4) (2/27) (1/09) (12/44)

$$\bar{R}^2 = 0/93 \quad F = 133$$

### 1. Vector Auto Regressive Model

LSOW  
LSOW(-1)  
LWW LWE  
LWW(-1) LWE(-1)

LOIL  
LWE(-1)

LOIL  
(-1)  
LWW LWE  
LWW(-1)

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$LSOL = 0/119 - 0/125 LSOL(-1) - 0/5 LME(-1) + 0/04 LMW(-1)$   
(0/38) (-1/4) (-0/35) (0/09)

$\bar{R}^2 = 0/78 \quad F = 35/4$

$LME = 0/016 + 0/21 LSOL(-1) + 0/15 LME(-1) - 0/11 LMW(-1)$   
(0/05) (0/23) (24/12) (-2/7)

$\bar{R}^2 = 0/96 \quad F = 323$

$LMW = -5/52 + 2/13 LSOL(-1) + 0/8 LME(-1) + 0/88 LMW(-1)$   
(-0/98) (0/65) (1/02) (11/63)

$\bar{R}^2 = 0/91 \quad F = 115$

SIC AIC

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LSOL  
LSOL(-1)

LMW LME

LMW(-1) LME(-1)

|  | %     | %     |            |
|--|-------|-------|------------|
|  | -3/88 | -4/1  | -4/37 LME  |
|  | -1/93 | -2/61 | -2/41 LMW  |
|  | -2/67 | -3/16 | -3/33 LWE  |
|  | -1/83 | -2/78 | -4/33 LWW  |
|  | -2/97 | -3/69 | -2/55 LSOL |
|  | -3/58 | -4/33 | -4/61 LSOW |
|  | -1/28 | -2/95 | -2/88 LOIL |

$LSOW = -0/72 - 0/26 LSOW(-1) + 0/18 LWE(-1) - 0/42 LWW(-1)$   
(-0/22) (-1/4) (0/29) (-0/71)

$\bar{R}^2 = 0/93 \quad F = 132$

$LWE = -0/23 + 0/11 LSOW(-1) + 1/56 LWE(-1) - 0/15 LWW(-1)$   
(-0/99) (0/88) (23/1) (-3/6)

$\bar{R}^2 = 0/95 \quad F = 190$

$LWW = -7/9 + 4/25 LSOW(-1) + 0/162 LWE(-1) - 0/83 LWW(-1)$   
(-2/1) (2/06) (2/16) (11/9)

$\bar{R}^2 = 0/97 \quad F = 327$

F

(IRF)

1. Impulse Response Function

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(1990) Kydland & Prescott

(1990) Kydland & Prescott

( $E_t$ ) ( $w_t$ )  
 ( $w_t$ )  
 (( $i < 0$ ,  $i = 0$ ,  $i > 0$ , )  $E_{t-i}$ )  
 ( $i < 0$ ,  $E_{t-i}$ )

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LWW LMW

AR(1)

|        | MW | ME(-1) | ME(-2) | ME | ME(+1) | ME(+2) |
|--------|----|--------|--------|----|--------|--------|
| MW     | /  | /      | /      | /  | /      | /      |
| ME(-1) | /  |        | /      | /  | /      | /      |
| ME(-2) | /  | /      |        | /  | /      | /      |
| ME     | /  | /      | /      |    | /      | /      |
| ME(+1) | /  | /      | /      | /  |        | /      |
| ME(+2) | /  | /      | /      | /  | /      |        |

LWE LME

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D.W = 2/91 D.W = 2/76

WW MW

WE ME .

ME( ) ME( )

WE( ) WE( )

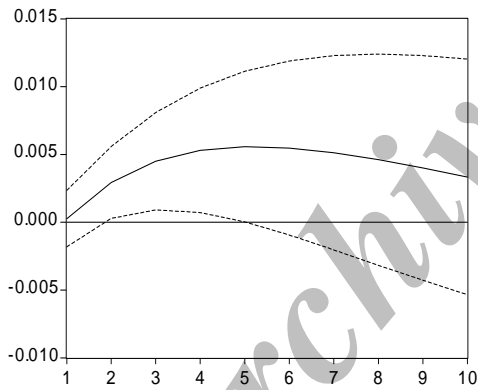
(+ ) WE(+ ) ME(+ ) ME(+ )

WE

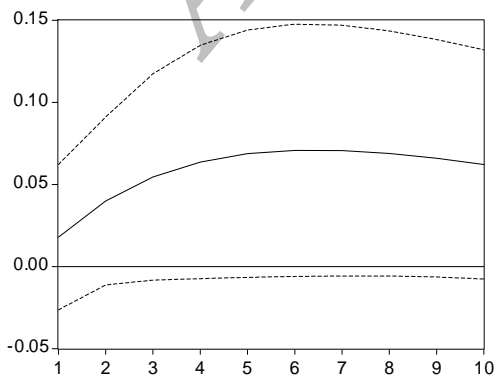
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(WW, WE(-2)) = 0/92 (MW, ME(-2)) = 0/87

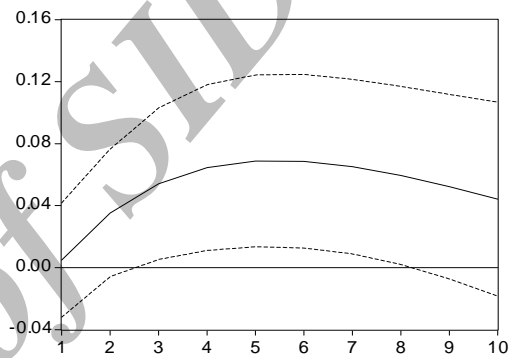
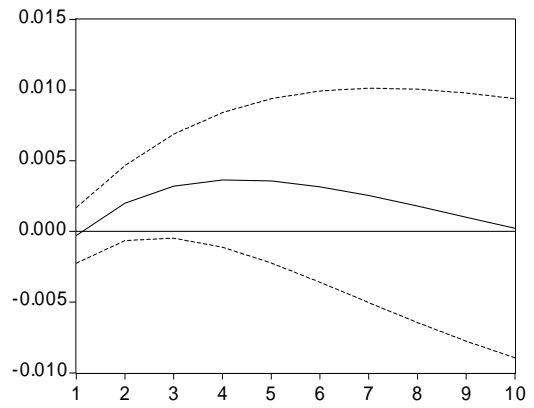
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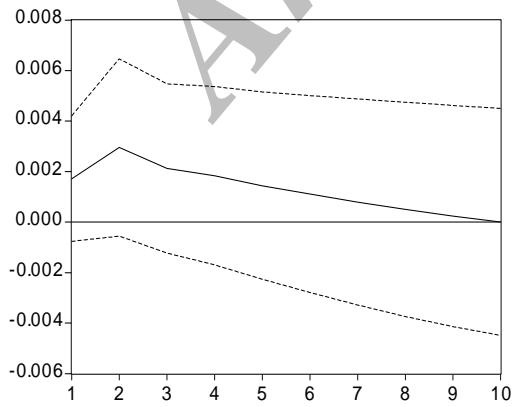
|        | WW | WE(-1) | WE(-2) | WE | WE(+1) | WE(+2) |
|--------|----|--------|--------|----|--------|--------|
| WW     | /  | /      | /      | /  | /      | /      |
| WE(-1) | /  |        | /      | /  | /      | /      |
| WE(-2) | /  | /      |        | /  | /      | /      |
| WE     | /  | /      | /      |    | /      | /      |
| WE(+1) | /  | /      | /      | /  |        | /      |
| WE(+2) | /  | /      | /      | /  | /      |        |



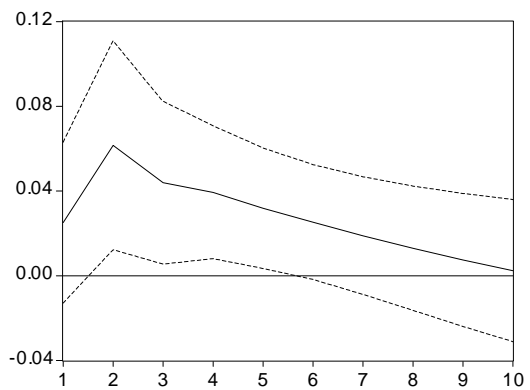
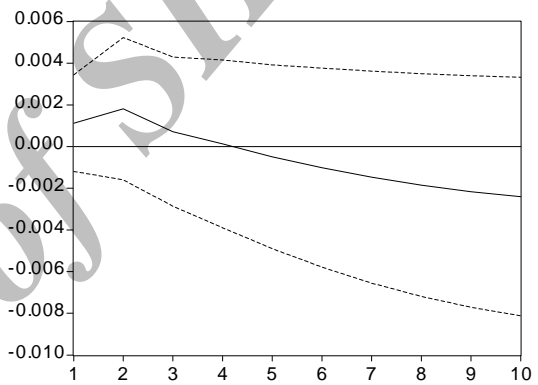
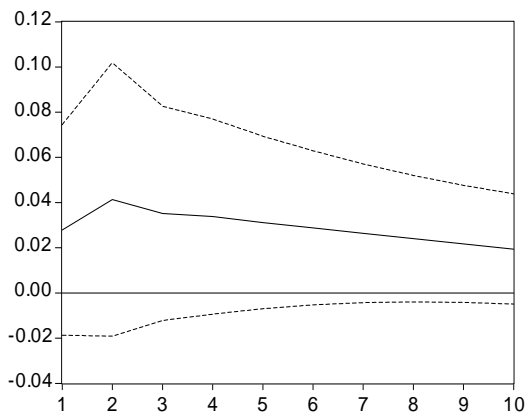
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(Walde, 2002)



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