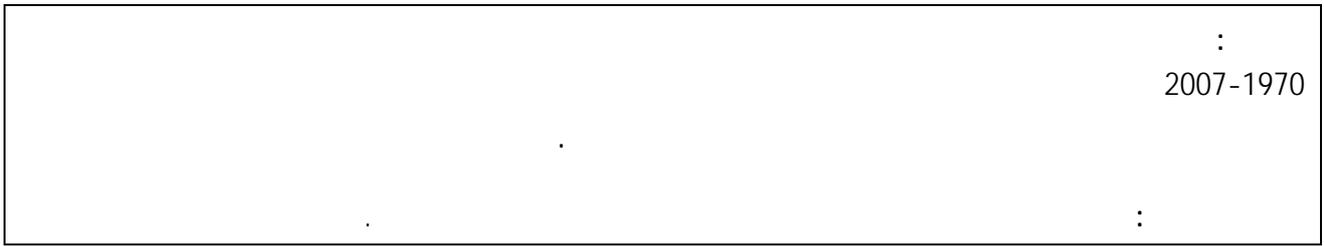


& *



.()

(Cashin- Cespedes- Salay)

()

.1
.2
.3

: -1

:" "

"Gustav Cassel" : -1-1
 1" " .1922 1921

:
 : -1-1- 1

* abderezak.benzaoui@yahoo.fr

$$P_i = E \times P_i \Rightarrow E_t = \frac{P_t}{P_t^*} \dots \dots \dots (1)$$

E_t :
: P_t^* P_t

-2-1-1

3

4

(1)

$$\ln_{E_t} = \ln P_t - \ln P_t^* \dots \dots \dots (2)$$

$$\Delta E_t$$

$$\Delta E_t = \Delta P_t - \Delta P_t^* \dots \dots \dots (3)$$

Δ
(3)

: La PPA Monétaire

-3-1-1

$$TcR = e_t P_t^* / P_t = P_{iT} / P_{iN} \dots \dots \dots (4)$$

t

P_N, P_T

e_t

$$e_t = TCR P_t / P_t^*$$

TCR

: - 2-1

.(Freidman 1953) (Nurkse 1945)

5.

Nurkse

(PPA)

:

-1-2-1

Kouri 1976, Frenkel 1976,

- -

.Hohson 1973,Mussa 1976.

6.

.()

()

: (SPMA)

-2-2-1

(1976) Dornbusch

)

7.

(

Frankel

: (Frankel)

-3- 1

Dornbusch

Dornbusch

Frankel

Frankel

8.

Dornbusch

Frankel

Dornbusch

Dornbusch

1945 Nurkse

:

All Stein (NATREX) :

(1985)

(FEER)

Clarck et Macdonald 1997 (BEER) : (1997)

: -4-1

La théorie de la

cointégration

Edwards [1989]

Halpern et Wyplosz 1996

Parikh et Kahn [1997]

Aglietta *et al.* [1998]

9

¹⁰(Cashin et Al.2002)
()

:
(Edwards 1989)

-2

:
$$\text{LogTCR}_t^* = \beta_0 + \beta_1 \text{Log}(X)_t + \beta_2 \dots \dots \dots (5)$$

(Proxy Variables)

11. Cashin : -1-2

: TCR -1

: (dpro) -2

RGDP

.(Achy.2000)

-3

Roil

%97

(Achy et Al)

.(Edwards, 1989) .

$$Ln(TCR_t) = \beta_0 + \beta_1 \ln dpro + \beta_2 \ln Roil_t + \beta_3 \ln Gk_t + \beta_4 \ln close \varepsilon_t \dots (6)$$

1970 38

2007

Unit Roots

: -2-2

ADF (1)

Shwartz AKaike information critirion (AIC)

Lag

.Bayesian critterion (SW)

(LnROIL, LnGK, LnClose)

ADF

(Lndpro)

(-2.6118, -29472, -36289) %10 %5 %1

%10

$H_0 = \phi_j = 1$

%10 %5 %1

:

$LnTCR \rightarrow CI(1); LnROIL \rightarrow CI(1); Lnprod \rightarrow CI(1); LnGK \rightarrow CI(1); Lnclose \rightarrow CI(1)$

(ECM) - - ()

Engle Granger : -3- 2

$$\varepsilon_t = LnTCR - \alpha_0 - \alpha_1 LnROil - \alpha_2 Lndpro - \alpha_3 LnGK - \alpha_4 LnClose + \varepsilon_t \dots (7)$$

:(Engle- Granger Test) -1-3- 2

$$LnTCR = \alpha_0 + \alpha_1 LnROil + \alpha_2 Lndpro + \alpha_3 LnGK + \alpha_4 LnClose + \varepsilon_t \dots (8)$$

$$\Delta \hat{\varepsilon}_t = \alpha_0 + \delta \hat{\varepsilon}_{t-1} + \Delta \varepsilon_{t-1} + e_t$$

EViews

$$LnTCR = 3.58 + 0.13 LnROil + 1.49 Lndpro + 0.34 LnGK + 0.51 LnClose \dots (9)$$

T : 11.5 2.36 20.36 3.41 9.70

(R²= 0.957) Adj. (R²=0.0.951) (SSR 0.39) (DW=1.6)

$\alpha = 5\%$

%10 %5 %1%1

(-4.182064) ADF:

PP

.H1 H0

%10 %5 %1

-3.69050

:(cointegration test Johansen-Juselius - -2-3-2

MCO"
()

"Johansen"
«EIEWS»

: (2)

r=0

r

% 5

(Trace)

r=1

%1 %5

%1 %5

Maximal Eigenvalue

%5

(ECM Estimation):

-4 -2

:

$$LnTCR = 3.0641 + 1.54LnDPRO + 0.6LnClose + 0.48LnGK + 0.23LnROIL... (10)$$

(3.55) (3.62) (8.69) (18.39)

:

% 1

-1

% 0.23

.% 0.48

% 1

-2

% 1

GDP

-3

% 1.54

.% 0.6

% 1

-4

(7 4)

(1987-1976)

1974-1973

1994-1988

2001- 1995

2003

-3

.(Makdisi et al, 2000)

-1-3

-1971

GDP

.2007

$$GDP_t = f(CFY_t, inf_t, X_t, CC_t, RM_t).... (11)$$

: inf

: CFY

: GDP -

: RM

: CC

: X -

2000

IFS

$$GDP = \beta_0 + \beta_1 X + \beta_2 INF + \beta_3 CFY + \beta_4 RM + \beta_5 CC + \varepsilon_t....(12)$$

$$LnGDP = \beta_0 + \beta_1 LnX + \beta_2 LnINF + \beta_3 LnCFY + \beta_4 RM + \beta_5 LnCC + \varepsilon_t \dots (13)$$

.2007 1970 38

.EViews

(3) : -1-2-3

Shwartz Bayesian AKaike information Critirion (AIC) ADF Lag Critterion (SW)

(RM ,LnINF ,LnCC ,LnCFY) ADF

GDP (-2.6118, -29472, -36289) %10 %5 %1

.%1 %5 %1

$$H_0 = \phi_j = 1$$

$LnGDP \rightarrow CI(1); RM \rightarrow CI(0); LnX \rightarrow CI(1)$
 $LnCC \rightarrow CI(1); LnCFY \rightarrow CI(1); LnINF \rightarrow CI(1)$

(3)

: -3-3

- : (Engle- Granger Test) -1-3-3

$$LnGDP = \alpha_0 + \alpha_1 RM + \alpha_2 LnCFY + \alpha_3 LnX + \alpha_4 Ln inf + \alpha_5 LnCC \dots (14)$$

ε_t

EViews

$$LnGDP = 2.28 - 0.03RM + 0.55LnCFY + 3.77LnX - 0.1Ln inf - 1.28LnCC \dots (15)$$

-3.71 - 53.16 2.07 4.17 T : 2.70 -2.06

0.08

$$\Delta \hat{\varepsilon}_t = \alpha_0 + \delta \varepsilon_{t-1} + \Delta \varepsilon_{t-1} + e_t$$

ADF :

: (4)

ADF

H0

(-3.3881)

.H1

:(cointegration test Johansen-Juseliusd)

-2-3-3

()

"Johansen"

:

(4)

«EViews»

%5

Maximal Eigenvalue

r=1

%1

.%1 %5

(Trace)

:

-4-3

(Diagnostic)

$$\text{LnGDP} = 0.96 - 1.48\text{RM} + 4.46\text{LnCFY} + 3.92\text{LnX} - 0.31\text{Ln inf} - 4.87\text{LnCC} \dots(16)$$

(-3.51) (- 8.73) (4.41) (9.32) (2.84) - (3.51)

R²=0.8

:

- 5-3

:

:H₀

$$F = \frac{(SCRR - SCRU)/c}{SCRU/(n-k-1)}$$

: SCRR :

: SCRU

(restriction) .

: C

LnGDP RM

Eviews.

:

.2.52 0.59

$$F = \frac{(21.22 - 21.12)}{21.12/(35 - 5 - 1)} = 0.13$$

$$F_{(n,K-1)}^{5\%} \leq F_{cal}$$

H₀

:

:

.1

.2

.3

.4

| ADF (1) | | | | | |
|----------|-----------|-----------|-------------|---|----------|
| | SC | AIC | ADF (t.ø j) | | |
| | -1.213434 | -1.391188 | -0,372633 | 2 | LnTCR |
| | -1.310546 | -1.44386- | -3.889258 | 1 | DlnTCR |
| | 1.469675 | -0.291921 | -1,898770 | 2 | LnROIL |
| | 0.478114 | -0.311789 | -4.0862857 | 1 | DlnROIL |
| | -3.209625 | -3.387379 | -1,367654 | 4 | LDpro |
| | -3.252618 | -3.385934 | -2.681023 | 1 | DlnDpro |
| | -1.490458 | -1.668212 | -1.713877 | 3 | LnGK |
| | -1.501509 | -1.63485 | -3.976922 | 1 | DlnGK |
| | -0.170191 | -.0347945 | -1.248922 | 2 | LnClose |
| | -0.22268 | -0.35599 | -4.414170 | 1 | DlnClose |
| Eviews : | | | | | |

| Maximal Eigenvalue Test Johansen (2) | | | | | | | |
|--------------------------------------|------------|-----------|----------|-------|-------|-------|-------|
| | | Statistic | | %5 | | %1 | |
| | | | | | | | |
| $r = 0$ | $r = 1$ | 42.38957 | 33.91459 | 33.46 | 30.04 | 38.77 | 35.17 |
| $1 \leq r$ | $r = 2$ | 21.85654 | 17.12029 | 27.07 | 23.80 | 32.24 | 28.82 |
| $2 \leq r$ | $r = 3$ | 13.23322 | 10.13106 | 20.97 | 17.89 | 25.42 | 22.99 |
| $3 \leq r$ | $r = 4$ | 5.987642 | 3.086166 | 14.07 | 11.44 | 18.63 | 15.69 |
| $4 \leq r$ | $r = 5$ | 1.583090 | 0.176371 | 3.76 | 3.84 | 6.65 | 6.51 |
| Trace Test | | | | | | | |
| $r = 0$ | $1 \geq r$ | 85.05006 | 64.42847 | 68.52 | 59.46 | 76.07 | 66.52 |
| $1 \leq r$ | $2 \geq r$ | 42.66049 | 30.51388 | 47.21 | 3989 | 54.46 | 45.58 |
| $2 \leq r$ | $3 \geq r$ | 20.80395 | 13.39359 | 29.68 | 24.31 | 35.65 | 29.75 |
| $3 \leq r$ | $4 \geq r$ | 7.570732 | 3.262537 | 15.41 | 12.53 | 20.04 | 16.31 |
| $4 \leq r$ | $5 \geq r$ | 1.583090 | 0.17631 | 3.76 | 3.84 | 6.65 | 6.51 |

EViews. :

ADF (3)

| | ADF (t.øj) | | |
|--|------------|---|--------|
| | -2.836342 | 1 | LnGDP |
| | -6.054997 | 1 | DlnGDP |
| | -2.8632968 | 1 | XLn |
| | -6.260801 | 1 | DlnX |
| | -1.818563 | 1 | INFLn |
| | -5.811391 | 1 | DlnINF |
| | -1.521761 | 1 | LnCC |
| | -5.964987 | 1 | DlnCC |
| | -1.427426 | 1 | CFYLn |
| | -5.128703 | 1 | DlnCFY |

EViews :

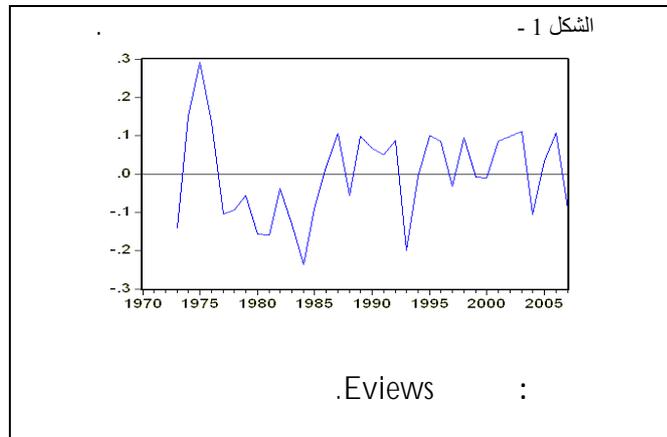
Johansen (4)

| Maximal Eigenvalue Test | | | | | | | |
|-------------------------|------------|-----------|---------------|--------|-------|--------|-------|
| | | Statistic | | %5 | | %1 | |
| | | | | | | | |
| $r = 0$ | $r = 1$ | 60.32868 | 53.5938503929 | 40.30 | 36.36 | 46.82 | 41.00 |
| $1 \leq r$ | $r = 2$ | 30.10657 | 23.64129 | 34.40 | 30.04 | 39.79 | 35.17 |
| $2 \leq r$ | $r = 3$ | 22.50209 | 20.38476 | 28.14 | 23.80 | 33.24 | 28.82 |
| $3 \leq r$ | $r = 4$ | 14.16884 | 14.15523 | 22.00 | 17.89 | 26.81 | 22.99 |
| $4 \leq r$ | $r = 5$ | 6.912762 | 6.644119 | 15.67 | 11.44 | 20.20 | 15.69 |
| $5 \leq r$ | $r = 6$ | 2.855917 | 0.953157 | 9.24 | 3.84 | 12.97 | 6.51 |
| Trace Test | | | | | | | |
| $r = 0$ | $1 \geq r$ | 136.8749 | 136.8749 | 102.14 | 82.49 | 111.01 | 90.45 |
| $1 \leq r$ | $2 \geq r$ | 76.54618 | 76.54618 | 76.07 | 59.46 | 84.45 | 66.52 |
| $2 \leq r$ | $3 \geq r$ | 46.43961 | 46.43961 | 53.12 | 39.89 | 60.16 | 45.58 |
| $3 \leq r$ | $4 \geq r$ | 23.93752 | 23.93752 | 34.91 | 24.31 | 41.07 | 29.75 |
| $4 \leq r$ | $5 \geq r$ | 9.768679 | 9.768679 | 19.96 | 12.53 | 24.60 | 16.31 |
| $4 \leq r$ | $6 \geq r$ | 2.855917 | 2.855917 | 9.24 | 3.84 | 12.97 | 6.51 |

EViews. :

(1) "Aicaike" "Schwarz" :

(P=1)



.46 1987

_1

² Redriger Dorumbush, Exchange Rate and Inflation, Cambridge, USA, 1994, P266.

.26 1999

_3

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⁵ - Mac Donald, R. & Taylor, M, Exchange Rate Economics, A survey, (IMF staff papers), vol 39, 1992, p2.

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⁸ - Jeffrey A. FRANKEL, A monetary approach to the Exchange Rate Doctrinal Aspects of Empirical Evidence, in the Economics of Exchange, 1987, PP11-22.

⁹ - Aglietta, M., Baulant, C., Coudert, V., Pourquoi l'euro sera fort. Une approche par les taux de change d'équilibre" Revue économique, n° 3, 1998, pp. 721-731.

¹⁰ - Cashin, P, L. Céspedes, and R. Sahay, , Keynes, Cocoa, and Copper: In Search of Commodity Currencies, IMF Working Paper 02/223 (Washington: International Monetary Fund), 2002.

2008/11/25 () 2008/08

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<http://www.abou-alhool.com/arabic1/details.php?id=450>