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1.

$Cu_{it}=\alpha_{it}+\rho\omega Cu_{it}+\delta Tax_{it}+ X_{rit}\delta_r+u_{it}$

$Cu_{it}=\alpha_{it}+\delta Tax_{it}+ X_{rit}\delta_r+u_{it}$

$u_{it}=\varphi\omega u_{it}+\varepsilon_{it}$

$Cu_{it}=\alpha_{it}+\rho\omega Cu_{it}+\delta Tax_{it}+ X_{rit}\delta r+u_{it}$

$u_{it}=\varphi\omega u_{it}+\varepsilon_{it}$

$Cu_{it}=\alpha_{it}+\rho\omega Cu_{it}+\theta\ \omega Tax_{it}+\delta Tax_{it}+\theta\ \omega\ X_{rit}\delta_r+ X_{rit}\delta_r+u_{it}$

Cu_{it} i t

ω φ ρ

$\varphi\omega Cu_{it}$ Cu_{it} θ

θ ωTax_{it} Cu_{it} θ

X lngdp

lnr

lnland lnis

lnfp

α_{it} u_{it}

2.

—— * Saa G 8

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$$Cu_{it} \quad \frac{Y_{it}}{Y_{A_{it}}} \quad \frac{Y_{it}}{K_{it}} \quad \frac{\alpha_k \quad \gamma_{Ek} \quad \frac{P_E}{P_L} \quad \gamma_{Mk} \quad \frac{P_M}{P_L} \quad \alpha_{Tk} \quad t \quad \frac{P_K}{P_L}}{\gamma_{kk}}$$

Cu_{it} i t Y_{it} i t $Y_{A_{it}}$ i t K_{it} i t i t P_E P_L P_M P_K t α_k γ_{Ek} γ_{Mk} α_{Tk} γ_{kk}

3.

BTT

STT

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$$\text{Moran s I} \quad \frac{\sum_i^n \sum_j^n \omega_{ij} Y_i \quad Y \; Y_j \quad Y}{S \sum_i^n \sum_j^n \omega_{ij}}$$

S S $\sum_j^n Y_i \quad Y$ n n Y_i Y_j i j Y ω_{ij} ω_{ij} i j i j

G $\sqrt{A \quad A \quad A \quad A}$

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ρ								
φ								
BTT								
STT								
gdp								
lnr								
lnland								
lnis								
lnfp								
W*BTT								
W*STT								
R^2								
Log-L								
obs								

P

I− CU_{it} α_{it} θω δ Tax_{it} u_{it}

I

CU_{it} ***I***−ρω θω+δ Tax_{it} R_{it}

R_{it} α_{it} u_{it}

t i ***Tax***

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$$\frac{\partial E(CU)}{\partial Tax_i} \quad \frac{\partial E(CU)}{\partial Tax_{it}} \qquad \begin{matrix} \frac{\partial E(CU_i)}{\partial Tax_i} & \frac{\partial E(CU_i)}{\partial Tax_{it}} \\ \frac{\partial E(CU_{it})}{\partial Tax_i} & \frac{\partial E(CU_{it})}{\partial Tax_{it}} \end{matrix} \qquad I - \rho\omega \qquad \begin{matrix} 1-\delta_i\omega\theta_i & -\omega_t\theta_i \\ -\omega\theta_i & 1-\delta_i-\omega_t\theta_i \\ -\omega_t\theta_i & -\omega_t\theta_i & 1-\delta_i \end{matrix}$$

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ρ δ

Tax

4

ρ								
φ								
CITR								
AVTR								
gdp								
lnr								
lnland								
lnis								
lnfp								
W*CITR								
W*AVTR								
R								
Log-L								
obs								

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