Céme depude t' de x y de 7? (borned (6))

3x >0

=) 2° (0 - Entre más stástica sea la ofuta laboral, más bajo es el e optimo.

(1-d) es la elasticioled de producción un respecto a la nomo de

Sostmibilidad fiscal con impesto al agriro: $\frac{5}{5} \frac{6}{(1415)...(1415)} = \frac{5}{5} \frac{7}{(1415)...(1415)}$

T+ = 2 y+ , 6+ = g+ y+

$$(=) \underbrace{\begin{cases} \sum_{t=1}^{\infty} \beta^{t-1} \left(\gamma_{t} \vartheta - g_{t} \right) \\ -g_{t} \end{cases}}_{} = 0$$



€j: Suporgans que gr=g) + t.

- · Incialmete, el gobierno opera en preospesto bolanceado periodo a Gr = T+ (=> 2+8 = g +t.
- · Superganous que el gobierno decide eliminar el impresto al ingreso en el primer periodo: 2,3=0
- · Cómo debe ser $(t, t) \ge 2$, para que las finançais públicas sean sostunibles?

2,y=2' constate por +22.

$$\sum_{t=1}^{\infty} \beta^{t-1} \frac{\gamma_t y}{1-g_t} = \sum_{t=1}^{\infty} \beta^{t-1} \frac{g_t}{1-g_t}$$

$$\frac{\chi_{1}^{\prime \prime \prime}}{(-g_{1})^{2}} + \beta \frac{\chi_{1}^{\prime \prime}}{(-g_{2})^{2}} + \beta^{2} \frac{\chi_{3}^{\prime \prime}}{(-g_{3})^{2}} + \dots = \frac{g_{1}}{(-g_{1})^{2}} + \beta \frac{g_{2}}{(-g_{2})^{2}} + \beta^{2} \frac{g_{3}}{(-g_{3})^{2}} + \dots$$

$$\beta \frac{\chi'}{1-g} + \beta^2 \frac{\chi'}{1-g} + \beta^3 \frac{\chi'}{1-g} + \dots = \frac{9}{1-g} + \beta^2 \frac{3}{1-g} + \dots$$

$$\frac{\chi'}{1-g}\left(\beta+\beta^2+\beta^3+\dots\right) = \frac{\chi'}{1-g} \stackrel{\varnothing}{\underset{t=1}{\stackrel{}{\stackrel{}}{=}}} \beta^{t} = \frac{\beta\chi'}{1-g} \stackrel{\varnothing}{\underset{t=1}{\stackrel{}{\stackrel{}}{=}}} \beta^{t-1}$$

$$\sum_{t=1}^{\infty} x^{t-1} = \frac{1}{1-\alpha}$$

$$= \frac{\beta x'}{1-\beta} \cdot \frac{1}{1-\beta}$$

$$\frac{g}{1-g} + \beta \frac{g}{1-g} + \beta^2 \frac{g}{1-g} + \dots = \frac{g}{1-g} \frac{g}{1-g} \frac{g}{1-g} \cdot \frac{1}{1-g}$$

$$=) \frac{\beta ?'}{(ig)(i\beta)} = \frac{9}{(ig)(i\beta)} = \frac{9}{2} \frac{1}{2} \frac{1}$$

g >0 = Si gobiero decide redicir en t=1 impusto al ingreso, deberá amentario de t>2.

Cómo evoluciona la deuda del gobierno?

=>
$$6, -0, = T,$$
 $6, = gy,$ $T = 0$

$$62 - Dz = Tz - (int) 0,$$

$$1 + (i + \frac{3}{4}) = \frac{Ct}{\beta(t-1)} = \frac{y_{+}(t-9t)}{\beta y_{+}(t-9t)}$$

$$1 + (i + \frac{3}{4}) = \frac{y_{2}(t-9z)}{\beta y_{1}(t-9z)}$$

$$62 - Dz = Tz - \frac{y_{2}(t-9z)}{\beta y_{1}(t-9z)} \cdot g_{1}y_{1}$$

$$=) Dz = gy_{2} - y_{1}y_{2} + \frac{y_{2}y_{2}}{\beta} = gy_{2} - \frac{gy_{2}}{\beta}y_{2}$$

$$=) Dz = gy_{2}$$

- · Devda del gobieno es igral al jaito público en ese
- · El recordo se dedica exclusivante a pagar la darde del gobierno del priodo anterior.
- · la restricción de no ponzi del gobiemo se cumple:

Impesho al contono:
$$G_{t} = g_{t}y_{t}$$
 $T_{t} = T_{c} C_{t}$
 $C_{t} + G_{t} = y_{t} = C_{t} = y_{t} - G_{t}$
 $C_{t} = y_{t} - g_{t}y_{t}$
 $C_{t} = (r - g_{t})y_{t}$

=)
$$T_{+} = \gamma_{t}^{c}(1-g_{+})y_{+}$$

Si el gobuno hene propert haloreado priodo:
 $T_{+} = G_{+} = \gamma_{t}^{c}(1-g_{+})y_{+} = g_{+}y_{+}$
=) $\gamma_{t}^{c} = g_{+}$

$$\frac{(1+1)^{3}(1+1)^{3}...(1+1)^{3}}{\beta(1-g_{1})} = \frac{(1-g_{2})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}...\frac{(1-g_{1})\frac{1}{3}z(1+2)^{2}}{\beta(1-g_{1})\frac{1}{3}z(1+2)^{2}}$$

$$\frac{2}{5}\left(g_{+}-\gamma_{c}^{c}(1-g_{+})\right) \cdot \beta^{+-1}\frac{(1-g_{+})y_{+}(1+\gamma_{+}^{c})}{(1-g_{+})(1+\gamma_{+}^{c})}=0$$

$$(=) \begin{cases} \sum_{t=1}^{\infty} p^{t-1} \left(g_t - \gamma_t^c \left(i - g_t \right) \right) \\ \left(i - g_t \right) \left(i + \gamma_e^c \right) \end{cases} = 0$$

Ej: Sipongmo 9+=9 tt.

Inicialiste il johens ture presperto belinceado: $2^c = \frac{9}{1-g}$

el gibrono decide elminer el upesto en el prodo 1: $Y_t^c = 0$, $Y_t^c = Y_t^c$, $t \ge 2$

Cuil debe ser l' para que las finantas públicas sem sostantes?

$$\frac{2}{\xi_{21}} \frac{\beta^{+-1} g_{t}}{(1-g_{t})(1r \tau_{t}^{c})} = \frac{2}{\xi_{21}} \int_{t-1}^{t-1} \frac{\gamma_{t} c(1g_{t})}{(1-g_{t})(1+\gamma_{t}^{c})}$$

$$\frac{g_{1}^{4}}{(1-g_{1})(1+\chi_{1}^{2})} + \beta \frac{g_{2}^{4}}{(1-g_{1})(1+\chi_{2}^{2})} + \beta^{2} \frac{g_{3}}{(1-g_{3})(1+\chi_{5}^{2})} + \dots$$

$$= \frac{\chi_{1}^{2}}{(1+\chi_{1}^{2})} + \beta \frac{\chi_{2}^{2}}{(1+\chi_{2}^{2})} + \beta^{2} \frac{\chi_{3}^{2}}{(1+\chi_{5}^{2})} + \dots$$

$$(-9) + \beta 9 + \beta^{2} 9 + \cdots$$

$$= \beta \gamma^{1} + \beta^{2} \gamma^{1} + \cdots$$

$$= \beta \gamma^{1} + \beta^{2} \gamma^{1} + \cdots$$

$$(=) \quad \frac{q}{(-q)} + \frac{q}{(1-q)(1+2')} \left(\beta + \beta^2 + \beta^3 + \cdots \right) = \frac{\gamma'}{(1+2')} \left(\beta + \beta^2 + \cdots \right)$$

(=)
$$\frac{g}{1-g} + \frac{g\beta}{(1-g)(H\gamma')} \stackrel{\text{def}}{=} \beta^{+-1} = \frac{\gamma'\beta}{(+\gamma')} \stackrel{\text{def}}{=} \beta^{\xi-1}$$

(=)
$$\frac{g}{1-g} - \frac{g p}{(-g)(+\tau')(-\beta)} = \frac{\gamma' \beta}{(+\tau')(-\beta)}$$

$$= 2 \frac{1}{|\gamma'|} = \frac{g/\beta}{|-g/\beta|}$$

$$\gamma' > \frac{g}{|-g|}$$