Consumption and Saving in the Heterogeneous-Agent Model

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Household i consumes Ci services & holds Mi, units of money Household i takes market tightness or and price of services p as given. Howa hold i maximize ut. liky pubject to longet constraint $ma \times \frac{1}{C_{i,m_{i}}} \times \frac{1}{1+X} \times \frac{2-1}{2} \times \frac{2$ st $p[1+\tau(x)]C_1+m_1=p_1(x)-k_1+v_1$ $\frac{\pm 0 \, \text{C}}{\text{C}} = \frac{1 + \tau(x)}{x} \left[\int_{0}^{1+\tau(x)} \left(1 + \tau(x) \right) \left(1 + \tau(x) \right) \right]$ $C_i = \left[\begin{array}{c} \times \\ 1 + \tau(x) \end{array} \right]^{\frac{1}{2}} \left[\int_{\mathbb{R}^2} (x) h_i - \frac{y_i'}{p} - \left(1 + \tau(x) \right) C_i \right]$ $\begin{bmatrix} 1 + x \\ 1 + 7(x) \end{bmatrix}^{-2} \end{bmatrix} C_i = x \begin{bmatrix} 1 + 7(x) \end{bmatrix}^{-2} \begin{bmatrix} 1 \\ 1 \end{bmatrix} C_i + x \begin{bmatrix} 1 \\ 1 \end{bmatrix}$ $C_{i} = \frac{\times \left[1 + \zeta \times J \right]^{-\xi}}{1 + \chi^{\xi} \left[1 + \zeta \times J \right]^{1-\xi}}$ [f(x) k, + v;] wealth, before
spending
(endowment + i'ncom) consumprion € (0,1)

y = (1 + \(\frac{1}{2}\)) \(\frac{1}{2}\) \(\frac{2}{2}\) \(\frac{1}{2}\) \(\f pur drave of $(x) \in (0,1)$ initial real wealth J(= o(x).[J(x) ki + y,] $m_i = \int (x) h_i' + x_i' - [1 + 7(x)] C_i$ P 1

Pavings - real wealth $= \sigma(x) [\int x/h, \times \mu_i']$ $m_i' - [1 - \sigma(x)] [\int x/h, \times \mu_i']$ + real in come | 1 real wealth | real wealth $\frac{\nabla i}{q(x)} = \frac{6(x)}{q(x)} \left[\frac{1}{q(x)} \frac{1}{k} \frac{1}{k} \frac{1}{q(x)} \right] - \frac{\nabla i}{q(x)}$ try function; $\delta(x) \in (0,1)$ is the Marginal Propensty to Spend (MPS)

, marginal propensity to spend out of wealth & in come -> [1- o(x)] is the manginal propensity to save, also E (6,1)