Samuelson Rule

Pascal Michaillat https://pascalmichaillat.org/c2/

Samue los (1954) rule: MRS gc (8/c) = 1 [2u/2g = 2u/2c] Samuelson spending ((1/c) * st MRSgc ((g/c)*) = 1 Amount of public spending that satisfie Samuelon rule -> oprimal public spending in a reoderaid model

Finst-ade approximation of MRSgc around (9/3) *: MRS gc = MRS gc (g/c*) + dMRSgc x [g/c-g/c*]

(omit all remo of order 2 & above) [df = fix/dx] 1 = - dln MRSgc E dln g(c = -g/L × d MRSgC MRSgc d g/C demakine evaluated at g/c+: $= \frac{dMRSgc}{dg/c} = -\frac{1}{2} \cdot \frac{MRSgc}{g/c^{*}} = -\frac{1}{2} \cdot \frac{1}{2} \frac{1}{2$

1- MRSgc 1 · 9/c - 9/c + 9/c + de partire from Samuelson opending elasinity of only lation by a private good s = stimulas spending