Example continued (PDF)

d) Partial adjustment model (explained in PDF, pp. 3-4):

 $\hat{C}_{t} = \frac{d \cdot b_{0} + d \cdot b_{1} \cdot Y_{t} + (1 - d) C_{t-1}}{C_{t}}$ $\hat{C}_{t} = \frac{1}{3} + \frac{1}{3} \cdot \frac$

Short-run (consumption) function:

Ct = -17.898 + 0.4564+0.52MCt-1
PDF, p.6.

- 92= 0.4556 Estimate of the short-run effect (propensity to consume)
- g3 = 1-d => d= 1-g3 = 1-0.5211=0.5789 estimate of the coefficient of adjustment

In a given year, 47.9% of the gap between long-run and actual consumption was eliminated on are rage.

• $g_z = d \cdot b_1 = 3^2 = 0.9513$ estimate of the long-run effect (propensity to consume)

• an = d.bo => bo = 31 = -37.372 intercept of the long-run (consumption) f. Long-run (consumption) function: $C_t^* = b_0 + b_1 Y_t$ $C_t^* = -37.372 + 0.9513 Y_t$ e) Adaptive expectations model (explained in PDF, pp. 4-5). Permanent income hypothesis (F. Modigliani): $\hat{C}_{t} = c \cdot b_{0} + c \cdot b_{1} \cdot Y_{t} + (1-c) \cdot C_{t-1}$ $\hat{C}_{t} = \hat{q}_{1} + \hat{q}_{2} \cdot Y_{t} + \hat{q}_{3} \cdot C_{t-1}$ (SRM) Autoregression function of current income): $C_t = -17.898 + 0.45564 + 0.52MC_{t-1}$ PDF, p.6. · g₂ = 0.4556 Estimate of the marginal propensity to consume <u>current</u> income

• $g_3 = 1 - c \Rightarrow c = 1 - g_3 = 1 - 0.5211 = 0.4789$ estimate of the coefficient of expectation

Expectations of disposable income in a given year relative to the past year represent on querage 47. The of the gap between the expectations of disposable in come in the past year and its realization.

- $g_z = c \cdot b_1 \Rightarrow b_1 = 2 = 0.9513$ estimate of the marginal propensity to consume permanent income
- gr=C.60=> bo= 21 = -37.372 intercept of the adaptive expectation f. (consumption function of permanent income)

Adaptive expectation function (consumption function of permanent income):

$$C_t = b_0 + b_1 Y_t^*$$

 $C_t = -37.372 + 0.9513 Y_t^*$