

$$! \\ N = X$$

$$N = C + I + G + Ex \\ C = C_{aut} + c_y * YV - c_r * r \\ YV = Y + Tr - T \\ Tr = Tr_{aut} \\ T = T_{aut} + t_y * Y \\ I = I_{aut} + b_y * Y - b_r * r \\ G = G_{aut} \\ Ex = Ex_{aut}$$

Haavelmo-Theorem
 $\Delta G = \Delta T$
 $\Delta BS = 0$

$$\Delta Y = \frac{1 - c_y}{1 - c_y - b_y + m_y} * \Delta G$$

$$X = Y + Im \quad C + I + G + Ex = Y + Im \quad D = Y$$

IS (μI) einfacher Multiplikator

$$! \\ D = Y \\ D = H + AB \\ D = D_{aut} + h_y * Y - m_y * Y - hr * r \\ hr = cr + br \\ H = C + I + G \\ H = H_{aut} + h_y * Y \\ h_y = c_y (1 - t_y) + b_y$$

$$Y = \frac{1}{1 - c_y * (1 - t_y) - b_y + m_y} * (H_{aut} + Ex_{aut} - Im_{aut})$$

$I + AB = S + BS$

IS-LM (μII) zinsweiterter Multiplikator

$I + BD + AB = S$

$$AB = Ex - Im \\ Ex = Ex_{aut} \\ Im = Im_{aut} + m_y * Y$$

$$Y = \frac{1}{1 - h_y + m_y + hr * l_y / l_i} * (D_{aut} + hr * \frac{M_{aut} - L_{aut}}{l_i})$$

$$BD = -BS \\ BS = T - Tr - G$$

$$S = YV - C \\ S = -C_{aut} + s_y * YV \\ s_y = 1 - c_y$$

GKM

$$M = BG + SE \\ BG = b_m * M \\ SE = (1 - b_m) * M \\ M = M_{aut}$$

$$M = \frac{1}{b_m + r_{se} * (1 - b_m)} * MB_{aut}$$

$M = L$

$$L = LT + LS \\ LT = l_y * Y \\ LS = L_{aut} - l_i * i$$

Zinsniveau

$$i = \frac{l_y}{l_i} * Y + \frac{L_{aut} - M_{aut}}{l_i}$$

$$MB = BG + EL \\ BG = b_m * M \\ EL = MR + \ddot{U}R \text{ (Annahme: } \ddot{U}R = 0) \\ MR = r_{se} * SE \\ SE = (1 - b_m) * M$$

$AD-AS$

$$Y = Y(A, K \text{ const})$$

$$G = p * Y - wN * A - \text{Kap.kosten} \quad \rightarrow \quad \frac{\delta G}{\delta A} = 0 \quad \frac{\delta Y}{\delta A} = \frac{wN}{p} = w$$

