Sufficient-Statistic Formula for Optimal Monetary Policy

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Divine Bevendge-Wichsell Gramewak. (* = pprimal manihal Optimal moretary policy. u (i*) = u* Sufficient - Drahistic formula Given current u, i. give the optional nominal interest nate ix -> 0, us oftimal policy to Fed piven current pitaatin Derivation of Jamula Finds-aden taylor expansion around it & u (it) = u* cu (i) = u (i*) + du z [i-1*]

Bereitze

(up to 2nd ade term)

u = u + + du (i'-1*) ('- (* - U - U)) du / d (

u - u + (* - (du/di i current nominal i'n resest nake (taget) (* spr.mal (. U - Vuo (. mae oplishisted famula) u-u* = unemploxment gap du/di monitary merltiplier I'm terest have increased by 1 pp (s du/di > 0 be higher i leads to higher u