Model File

Generated by Python Framework

December 1, 2024

1 Model Information

name: *Monetary policy model example*
file: */home/alexei/work/Framework/snowdrop/models/TOY/JLMP98.yaml*

1.1 Endogenous Variables Values

PDOT = 0.0, RR = 0.0, RS = 0.0, Y = 0.0

1.2 Parameters

g = 0.05, p_pdot1 = 0.41, p_pdot2 = 0.20, p_pdot3 = 0.28, p_rs1 = 3.00, p_y1 = 0.30, p_y2 = 0.10, p_y3 = 0.32

1.3 Shocks

ey

1.4 Equations

1 : PDOT = p_pdot1*PDOT(+1) + (1-p_pdot1)*PDOT(-1) + p_pdot2*(g^2/(g-Y) - g) + p_pdot3*(g^2/(g-Y(-1)) - g)

2 : RR = RS - p_pdot1*PDOT(+1) - (1-p_pdot1)*PDOT(-1)

3 : RS = p_rs1*PDOT + Y + ers

4 : Y = p_y1*Y(-1) - p_y2*RR - p_y3*RR(-1) + ey

1.5 Legend

PDOT -- Inflation
PDOT(+1) -- Lead of Inflation
PDOT(-1) -- Lag of Inflation

RR -- Real Interest Rate
RR(-1) -- Lag of Real Interest Rate
RS -- Monetary Policy Rate
Y -- Output Gap
Y(-1) -- Lag of Output Gap
ers -- Exogenous Process
ey -- Production Shock