```
Adaptive Expectations
               y_{t} = x + y_{t} + y_{t}
1 + y_{t}
1 + y_{t}
1 + y_{t}
               Adaptive Exp Lypothesis: 0< 1<1
                \chi_{t}^{+} - \chi_{t-1}^{*} = \lambda \left( \chi_{t} - \chi_{t-1}^{*} \right) \tag{2}
                              t deserved value of x
                 \chi_{t}^{*} = \lambda \chi_{t} + (1-\lambda) \chi_{t-1}^{*} = 15
{ lay (3) and pluy in (3) } = \( \lambda \lambda + (1-\lambda) \lambda + -1 + (1-\lambda) \lambda \k_{-2} + \ldots \)
                       = \beta \lesssim (1-\chi)^{2} \chi_{\xi-j}
j=0
                 Pluj (2) : L (1):
                    y; = α+β(λ) + (1-λ) X+1) + εε
                      = d + 8 \( \frac{5}{1-m} \) \( \chi \) \( \chi \)
                          w; = \( \lambda ( \lambda - \lambda )^j
                APL Jorn for Koyck lag madel
                  y; = do + Boxt + (1-2) y+1+ VE
```

SR effect: $g_0 = g_1$ LK effect: $y = x_1 + g_1 \times (1 - \lambda)y$ $y = x_1 + y_2 \times (1 - \lambda)y$ $y = x_1 + y_2 \times (1 - \lambda)y$ $y = x_1 + y_2 \times (1 - \lambda)y$ $y = x_1 + y_2 \times (1 - \lambda)y$

AEM: yt = 1+ 1 x ex + Et Tevision coef of exp cron or forecast $\lambda \approx 0$ slow wision

Estimation using keyde Transformation (with keyde distr-) From (6): $y_t = \beta_L + \beta_2 \lambda \sum_{j=0}^{\infty} (1-\lambda)^j x_{t-j} + \mu_t$ KT: (6) - lag (6). (1-2) $y_{t-1} = \beta_1 + \beta_1 \lambda = (1-\lambda)^{i} \times_{t-j-1} + u_{t-1} \cdot (1-\lambda)$ $y_{t-1} = \beta_1 + \beta_1 \lambda = (1-\lambda)^{i} \times_{t-j-1} + u_{t-1} \cdot (1-\lambda)$ $y_{t-1} = \beta_1 + \beta_1 \lambda = (1-\lambda)^{i} \times_{t-j-1} + u_{t-1} \cdot (1-\lambda)$ ADL (1,0) 9 = (1-2) y+-1 + 28, + B22 X+ + W+ - (1-1) W+1 $1-\lambda = 0.85$ 3 = 0,16

Estimation using keyde Transformation (without keyde distr-) $\int_{1}^{2} J_{+} = \int_{1}^{2} I_{+} + \int_{2}^{2} I_{+} + I_{+}$ $X_{t+1} - X_t = \lambda \left(X_t - X_t \right) \tag{4}$ KT: (as 13) 4-1= f1+ B2 Xt + Uta $\beta_{2} = -\beta_{1} + \gamma_{2} - U_{t-1}$ $y_{t} = \beta_{1} + \beta_{2} \lambda k_{t} + (1 - \lambda) \beta_{2} \lambda_{t}^{e} + W =$ = B, + B2 2 X2+ (1-2) (-B, + Y1-1-W1) +4 = 28, + B2 2Xe = (1-2) 9r-1 + Ut - 14-2)4 Enor Correction Model

(4)
$$y_{t}^{*} = x + p x_{t} + \epsilon_{t}$$

EC hypothesis:
$$y_{t} - y_{t-1} = (1-r)(y_{t}^{*} - y_{t-1}^{*}) + (1-x)(y_{t}^{*} - y_{t-1}^{*})$$

Change:
$$potential lw.$$

$$o(1-r<1)$$

$$o(1-x)(1-x)(1-x)$$

ADL (1, 1)