

"homogeneous"

observed variables enter equation linear

no unobserved heterogeneity (no  $\eta$ -terms)

covariances across occasions and within occasions (see Linear Model without Unobserved Heterogeneity)

"additive"

observed variables enter equation linear

additive unobserved heterogeneity (additive  $\eta$ -terms)

"cross-lagged"

observed variables enter equation linear

nonadditive unobserved heterogeneity (multiplicative  $\eta$ -terms)

`linear == TRUE`

observed variables enter equation nonlinear (product terms)

no unobserved heterogeneity (no  $\eta$ -terms)

observed variables enter equation nonlinear (product terms)

additive unobserved heterogeneity (additive  $\eta$ -terms)

observed variables enter equation nonlinear (product terms)

nonadditive unobserved heterogeneity (multiplicative  $\eta$ -terms)

`linear == FALSE`