Ratio of variance of parameter estimates for Lotka-Volterra seasonal model  $\sigma = 0.1$  ;  $\alpha = 2/3$  ;  $\beta = 4/3$  ;  $\gamma = 1$  ;  $\delta = 1$  ;  $\epsilon = 0.2$  ;  $\omega = 0.5$ 2000 -1500 -Variance Ratio SLS/NLS Parameter set Linear 1000 -Non-linear 500 -0 -. High Low Quality of prior information