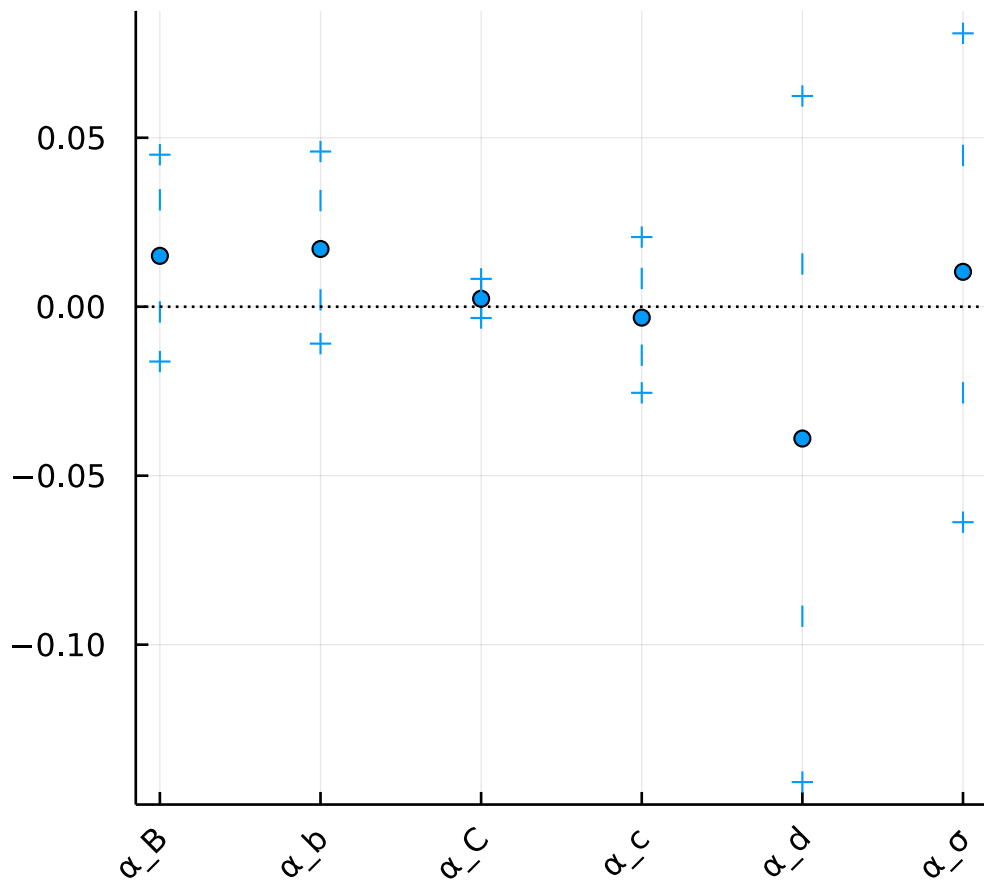Siler time series parameters LVA