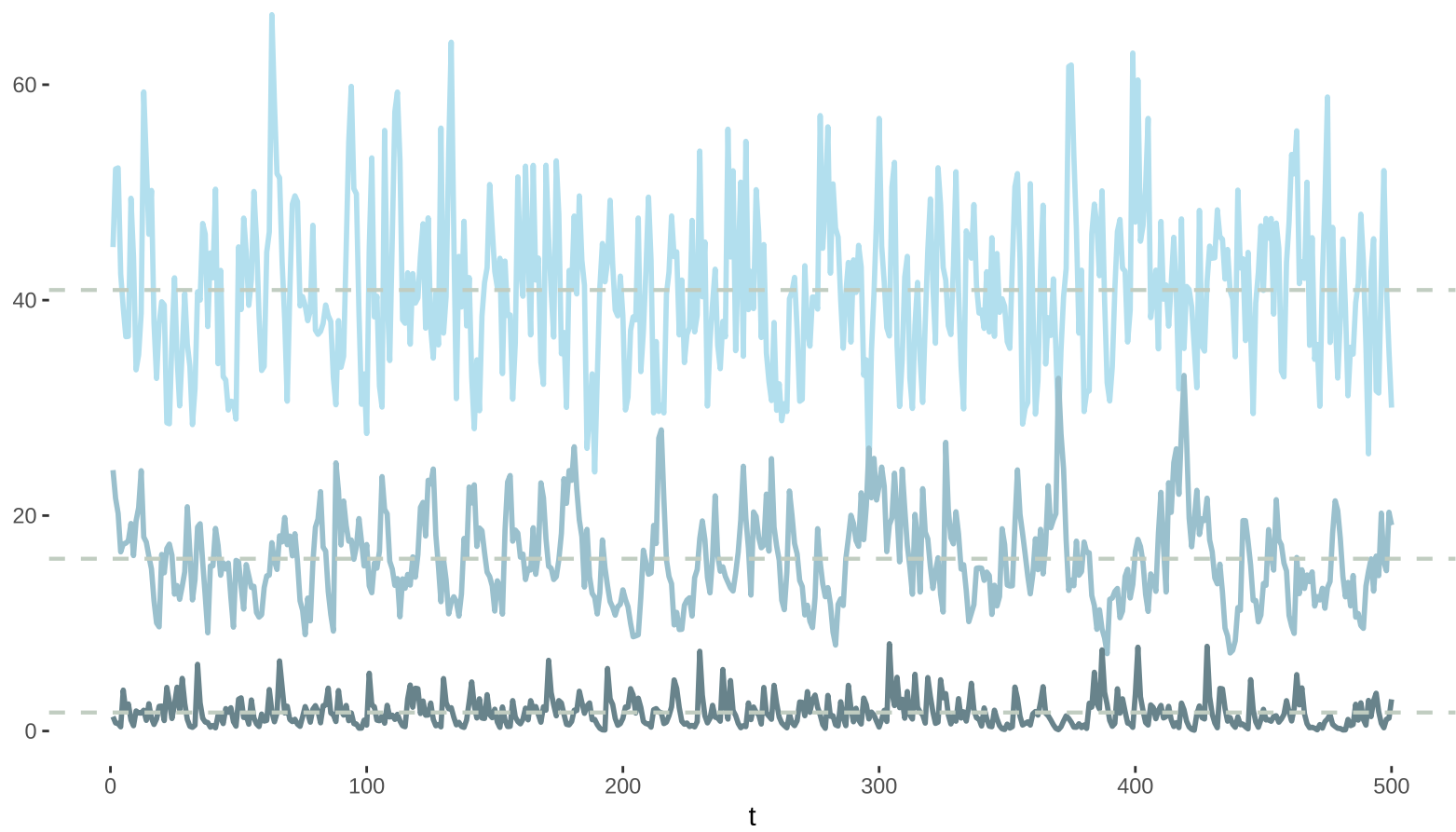
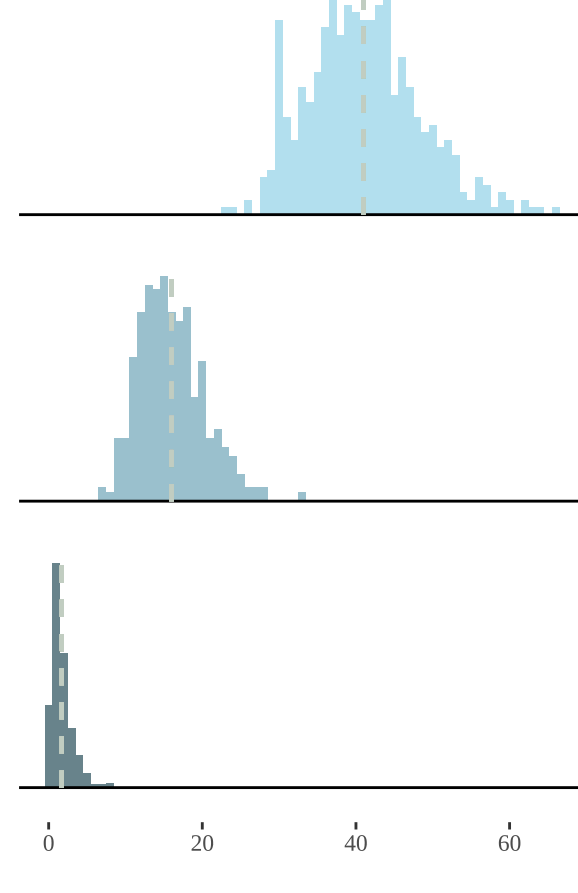


$\chi^2\text{AR}(1)$

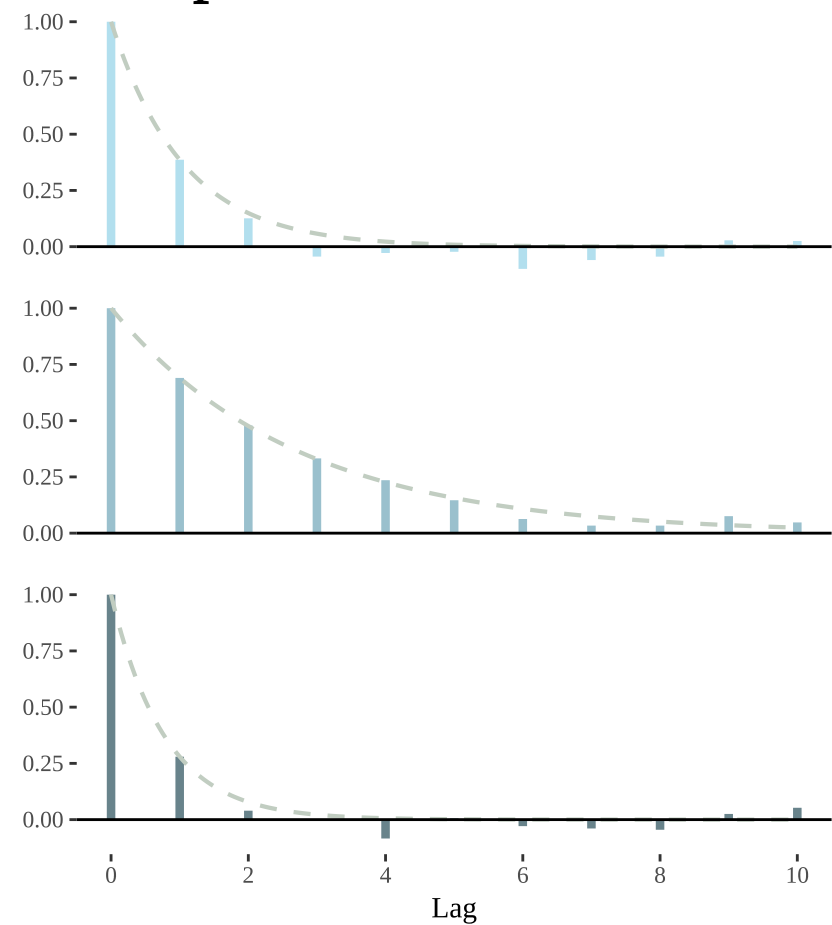
Time series



Marginal distribution



Sample ACF



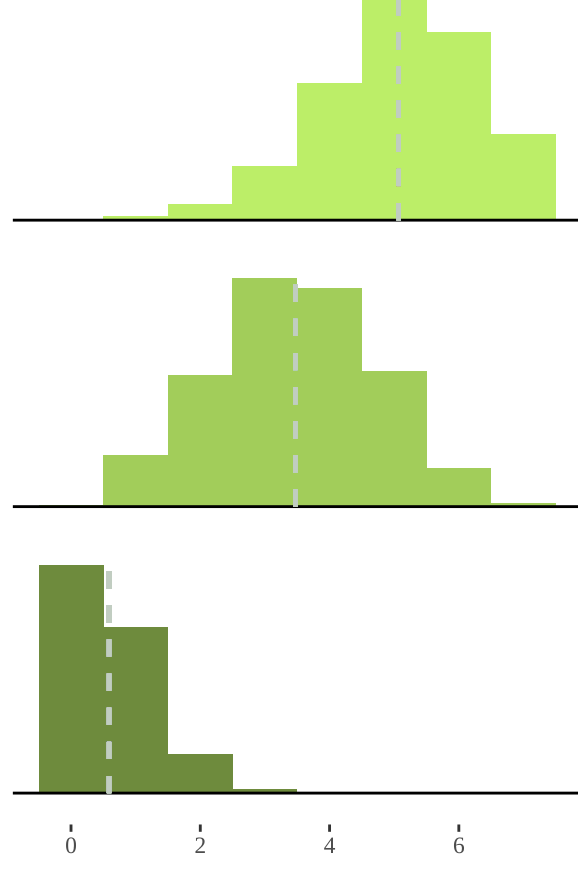
- $c = 0, \quad v = 25, \quad \varphi = 0.4 \rightarrow \mu = 40.94, \quad \sigma^2 = 53.97, \quad \gamma = 0.45$
- $c = 0, \quad v = 5, \quad \varphi = 0.7 \rightarrow \mu = 16, \quad \sigma^2 = 17.79, \quad \gamma = 0.66$
- $c = 0, \quad v = 1, \quad \varphi = 0.4 \rightarrow \mu = 1.72, \quad \sigma^2 = 1.86, \quad \gamma = 1.67$

BinAR(1)

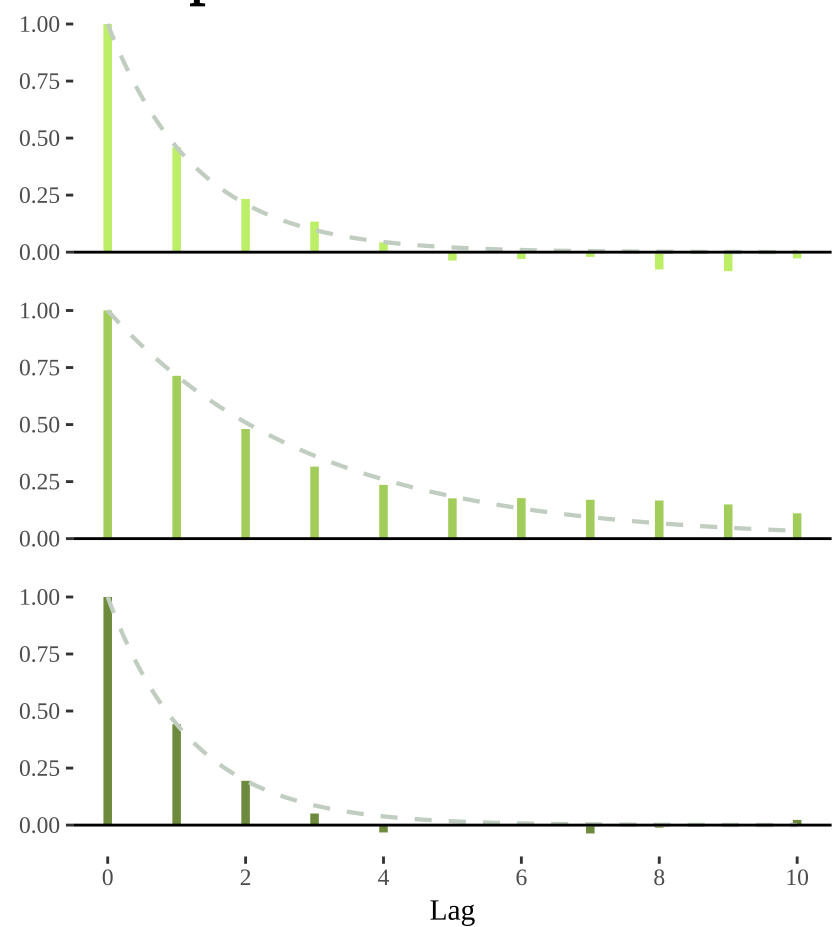
Time series



Marginal distribution



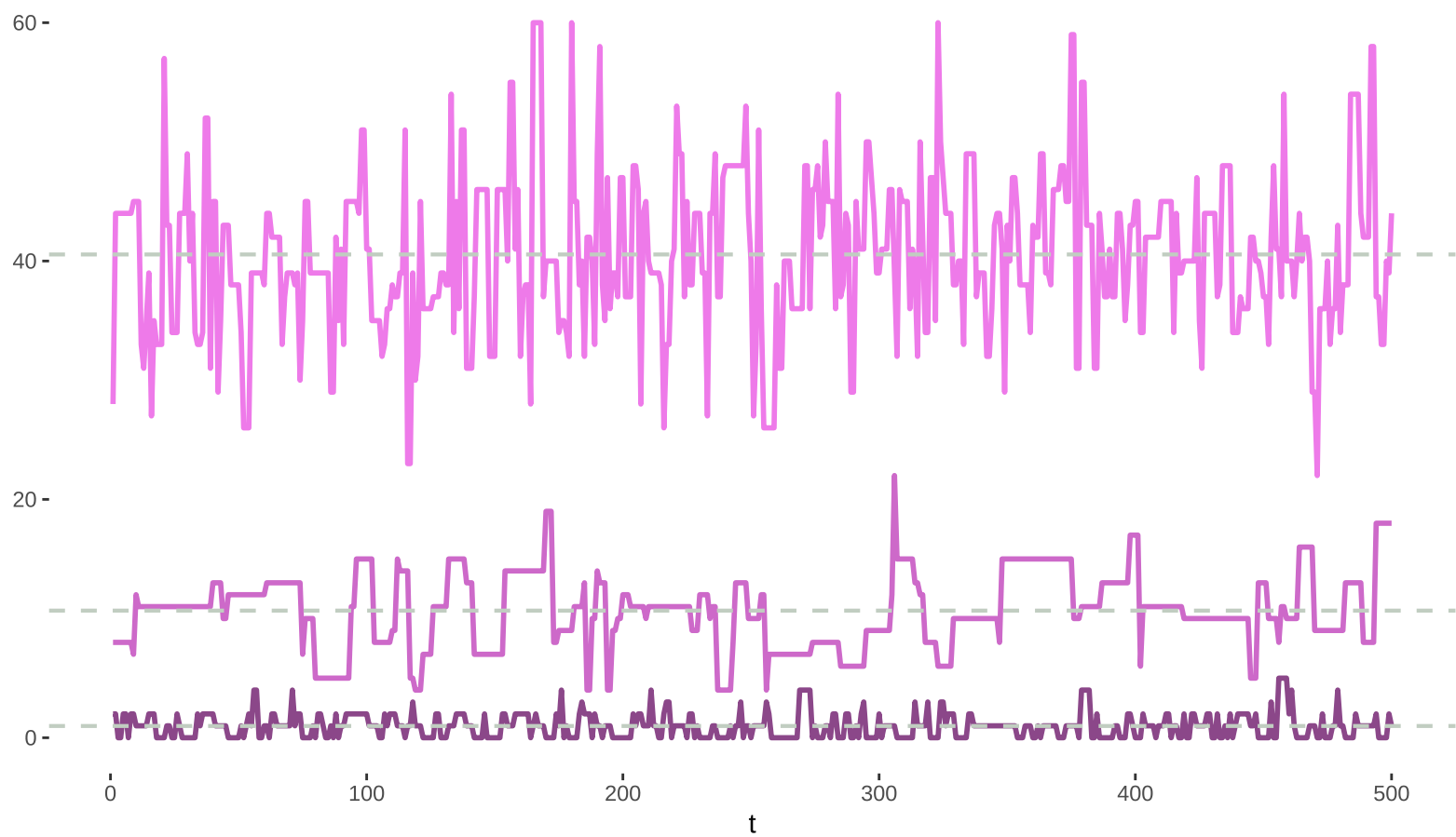
Sample ACF



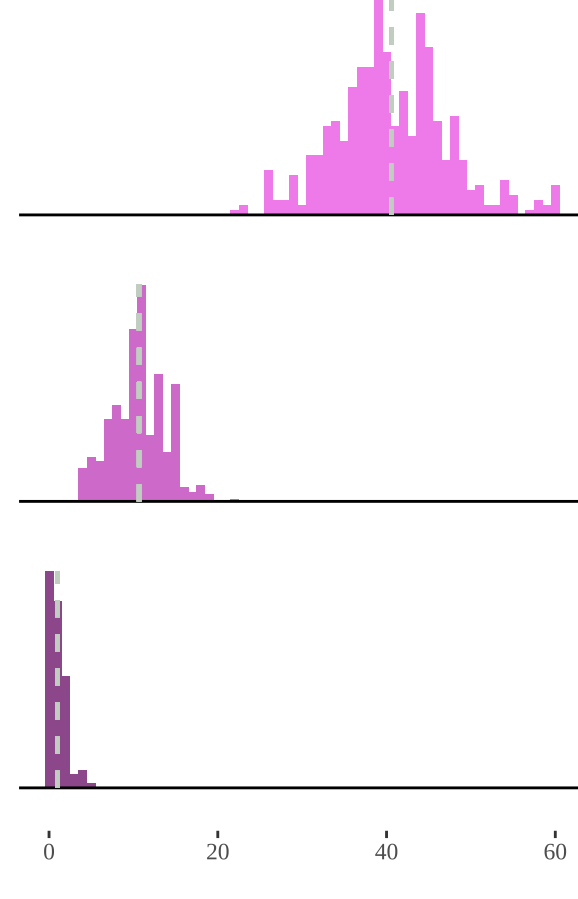
- $k = 7, \quad \alpha = 0.85, \quad \beta = 0.4 \rightarrow \rho = 0.46, \quad \mu = 5.07, \quad \sigma^2 = 1.53, \quad \gamma = -0.46$
- $k = 7, \quad \alpha = 0.85, \quad \beta = 0.15 \rightarrow \rho = 0.71, \quad \mu = 3.47, \quad \sigma^2 = 1.66, \quad \gamma = 0$
- $k = 7, \quad \alpha = 0.5, \quad \beta = 0.05 \rightarrow \rho = 0.44, \quad \mu = 0.59, \quad \sigma^2 = 0.49, \quad \gamma = 1.05$

PoDAR(1)

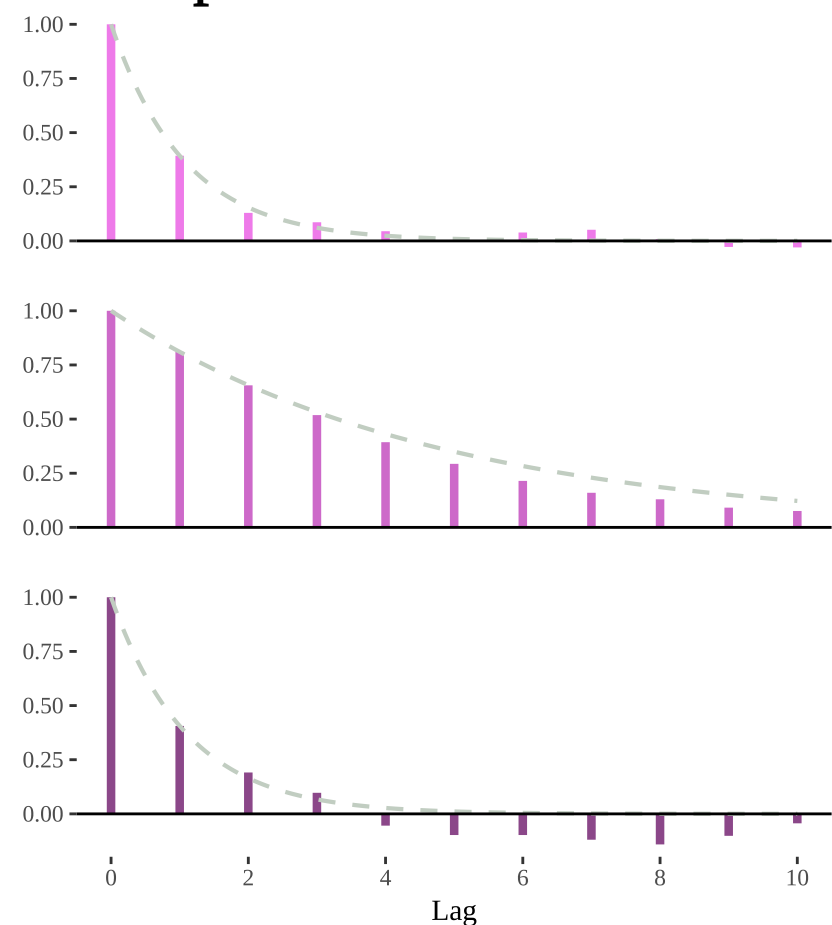
Time series



Marginal distribution



Sample ACF



- $\lambda = 40, \quad \tau = 0.4 \rightarrow \rho = 0.39, \quad \mu = 40.55, \quad \sigma^2 = 45.73, \quad \gamma = 0.25$
- $\lambda = 10, \quad \tau = 0.8 \rightarrow \rho = 0.81, \quad \mu = 10.67, \quad \sigma^2 = 10.15, \quad \gamma = 0.09$
- $\lambda = 1, \quad \tau = 0.4 \rightarrow \rho = 0.41, \quad \mu = 0.98, \quad \sigma^2 = 1.11, \quad \gamma = 1.23$