

$$\text{SARIMA } (1, 0, 0) \times (0, 1, 1)_{12}$$

↓
 P D Q P D Q T
 1 2 3 4 5 6 7 8 9 10 11 12

1

$$x_t =$$

$$\Phi(B^*) \phi(B) \nabla_s^\triangleright \nabla \cdot x_t = \Theta(B^*) \theta(B) \omega_t$$

$$\underbrace{(1-\alpha_1 B)}_{P=1} (1-B^{12}) x_t = (1+\beta_1 B^{12}) w_t$$

$D=1 \qquad \qquad Q=1$

$$(1 + \alpha_1 B^{13} - B^{12} - \alpha_2 B) x_t = w_t + \beta_1 w_{t-12}$$

$$x_t = -\alpha_1 x_{t-13} + x_{t-12} + \alpha_1 x_{t-1} + w_t + \beta_1 w_{t-12}$$