

B.s. equations

$$\textcircled{0} \quad x_0 = (1+\alpha)x_1 + x_2$$

$$\textcircled{1} \quad x_2 = x_3 + x_7 + x_8$$

$$\textcircled{2} \quad x_3 = x_4 + x_6$$

$$\textcircled{3} \quad x_7 = \frac{5}{6}x_6$$

$$\textcircled{4} \quad x_4 + x_8 = x_5$$

$$\textcircled{5} \quad x_3 = 4x_8$$

$$\textcircled{6} \quad x_5 = x_9 + \frac{3}{4}x_{18} + \frac{3}{4}x_{19}$$

$$\textcircled{7} \quad x_9 + x_{20} + x_{21} = x_{10} + \frac{3}{2}x_{11} + \frac{3}{2}x_{14}$$

$$\textcircled{8} \quad \frac{1}{2}x_{11} = x_{12} + x_{13}$$

$$\textcircled{9} \quad x_{11} + x_{14} = x_{15} + x_{16} + x_{17}$$

$$\textcircled{10} \quad x_{15} + x_{16} = x_{22}$$

$$\textcircled{11} \quad x_{17} + x_{30} = x_{23}$$

$$\textcircled{12} \quad x_{23} = \frac{6}{5}x_{24}$$

$$\textcircled{13} \quad x_{24} = \frac{5}{4}x_{25}$$

$$\textcircled{14} \quad x_{25} = x_{26}$$

$$\textcircled{15} \quad x_{26} = x_{27} + x_{31}$$

$$\textcircled{16} \quad x_{27} = x_{28}$$

$$\textcircled{17} \quad x_{28} = x_{29} + \frac{4}{3}x_{20}$$

$$\textcircled{18} \quad x_{29} + x_{18} + x_{19} = x_{30} + \frac{4}{3}x_{21}$$

$$\textcircled{19} \quad \beta x_1 + \frac{1}{6}x_6 + \frac{1}{3}x_5 - \frac{1}{3}x_{10} + \frac{1}{3}x_{20} + \frac{1}{2}x_{14} + x_{13} + \frac{1}{5}x_{24} + \frac{1}{4}x_{25} + \frac{1}{4}x_{29} = 0$$

$$\textcircled{20} \quad -x_1 - \frac{1}{3}x_0 - \frac{1}{6}x_4 + \frac{1}{3}x_5 + \frac{1}{3}x_9 + \frac{1}{2}x_{15} + \frac{1}{4}x_{26} + \frac{1}{6}x_{27} + \frac{1}{4}x_{18} = 0$$

For simplicity:

$$\textcircled{21} \quad x_{12} = \frac{1}{2}x_{11}$$

$$\textcircled{22} \quad x_{22} = x_{16}$$

$$\textcircled{23} \quad x_{20} = 0$$

$$\textcircled{24} \quad x_{21} = 0$$

$$\textcircled{25} \quad x_{19} = 0$$

$$\textcircled{26} \quad x_{30} = 2x_{17}$$