

$$a_1^*, a_2^*$$

$$v_1^*, v_2^*$$

$$w_1^*, w_2^*$$

$$a_1^* = \left[1 + \exp(\Lambda L_e^*) \frac{\Lambda + \gamma/2}{\Lambda - \gamma/2} \right]^{-1}$$

$$v_1^* = \frac{-ia_1^*}{\Lambda - \gamma/2}$$

$$w_1^* = \gamma/2 + \Lambda$$

$$a_2^* = 1 - a_1^*$$

$$v_2^* = \frac{i(1 - a_1^*)}{\Lambda + \gamma/2}$$

$$w_2^* = \gamma/2 - \Lambda$$