

$$p_i = \frac{J}{\Delta X_{\bar{i}} Z_C^* - \Delta X_{\bar{i}} Z_i^*}$$

$$U_i(C) - U_i(NC) = p_i (\Delta X_i Z_C^* - \Delta X_i Z_i^*) - J$$

$$p_i = \frac{1}{1 + \exp \left(-\beta_{DC} \cdot \left(\frac{\Delta X_i Z_C^* - \Delta X_i Z_i^*}{1 + \exp(-\beta_{DC}(p_i(\Delta X_{\bar{i}} Z_C^* - \Delta X_{\bar{i}} Z_i^*) - J))} - J \right) \right)}$$

$$A_{max} = E_{max} = 500; r_A = 1; r_E = 0.8; \gamma_E = 0.9; \gamma_A = 0.65; \beta_l = 1.8; \lambda = 0.005; r_0 = 2$$

$$N_{expl} = 25; I = 0.001; J = 0.0001; \nu = 5; E_{ext}(t_0) = 3E_{max}; t_f = 4$$