A

Time t Time $t+1$

S

L

R

$N_t = L + S$ $N_{t+1} = S + R$

$$\Delta N = N_{t+1} - N_t = R - L$$

$$g = \frac{\Delta N}{N_t} = \frac{R}{N_t} - \frac{L}{N_t} = r - l$$

$$\Delta g = \Delta r - \Delta l = \Delta\left(\frac{\Delta N}{N_t}\right)$$

B

Abundance   Time $\Delta N\uparrow$

Abundance   Time $\Delta N\downarrow$

Growth rate (g)   Time Δg

0

Abundance   Time $\Delta N\uparrow$

Δg

Growth rate (g)   Time

0

Abundance   Time $\Delta N\downarrow$

Δr

Δl

C

Δr

0

Δl

Δr

Time

0