



With  $R = A$  or  $B$

$$P_{eff,R} = P_{eff} + \epsilon_R P_{eff}$$

$$I_R = H_R * P_{eff,R}$$

$$\frac{dS_R}{dt} = I_R - Q_R$$

$$Q_R = k_R S_R^{eR}$$

$$Q'_B = Q_B + (H_{AB} * Q_A)$$