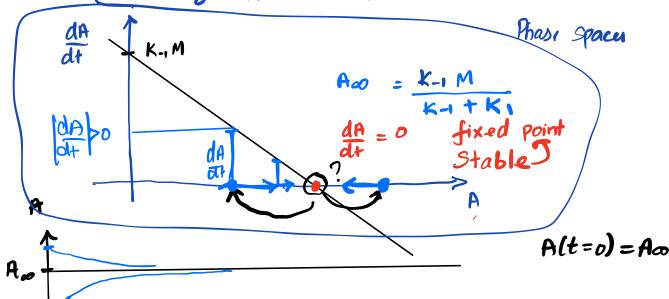
Conservation statement

$$\frac{dA}{dF} = -K_1A + K - 1B$$

$$B = M - A$$

$$\frac{dA}{dt} = \left(- \left(K_1 + K_{-1} \right) A + K_{-1} M \right)$$

Linear ordinary differential equation.



Ab the second initial
$$A(t) = A_{\infty} - (A_{\infty} - A_{0})e^{-(K_{1} + K_{-1})t}$$

$$A(t) = A_{\infty} - (A_{\infty} - A_{0})e^{-(K_{1} + K_{-1})t}$$

$$A(t) = A_{\infty} - (A_{\infty} - A_{0})e^{-(K_{1} + K_{-1})t}$$

$$A(t) = A_{\infty} - (A_{\infty} - A_{0})e^{-(K_{1} + K_{-1})t}$$

$$A(t) = A_{\infty} - (A_{\infty} - A_{0})e^{-(K_{1} + K_{-1})t}$$

$$A(t) = A_{\infty} - (A_{\infty} - A_{0})e^{-(K_{1} + K_{-1})t}$$

$$A(t) = A_{\infty} - (A_{\infty} - A_{0})e^{-(K_{1} + K_{-1})t}$$

$$A(t) = A_{\infty} - (A_{\infty} - A_{0})e^{-(K_{1} + K_{-1})t}$$

$$3A \xrightarrow{R} C$$

$$\frac{dC}{dt} = KA^3$$

$$2A+B \stackrel{K_1}{\rightleftharpoons} C$$

moleculs Stockiometry A -3

$$\frac{dB}{dB} = -1 K_1 A^2 B + 1 K_{-1} C$$

$$\frac{dc}{dt} = K_1 A^2 B - K_{-1} C$$

$$K_1A^2B - K_{-1}C$$

$$A + A \stackrel{k_1}{\rightleftharpoons} C$$

Dimenization.

$$\frac{dA}{dt} = -2K_1A^2 + 2K_{-1}C$$

$$\frac{dC}{dt} = K_1A^2 - K_{-1}C$$

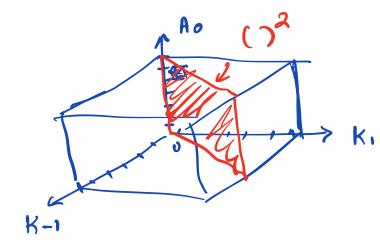
Conservation Statement

$$\frac{dA}{dt} + 2\frac{dC}{dt} = 0$$

$$A + 2c = A_0$$

ACt)

Ao, Ki, K-1



1 23

K, f(K-1,...)

'composite' parameter

$$K' = f(K_1, K_{-1})$$

Non-dimensionalization and scaling!