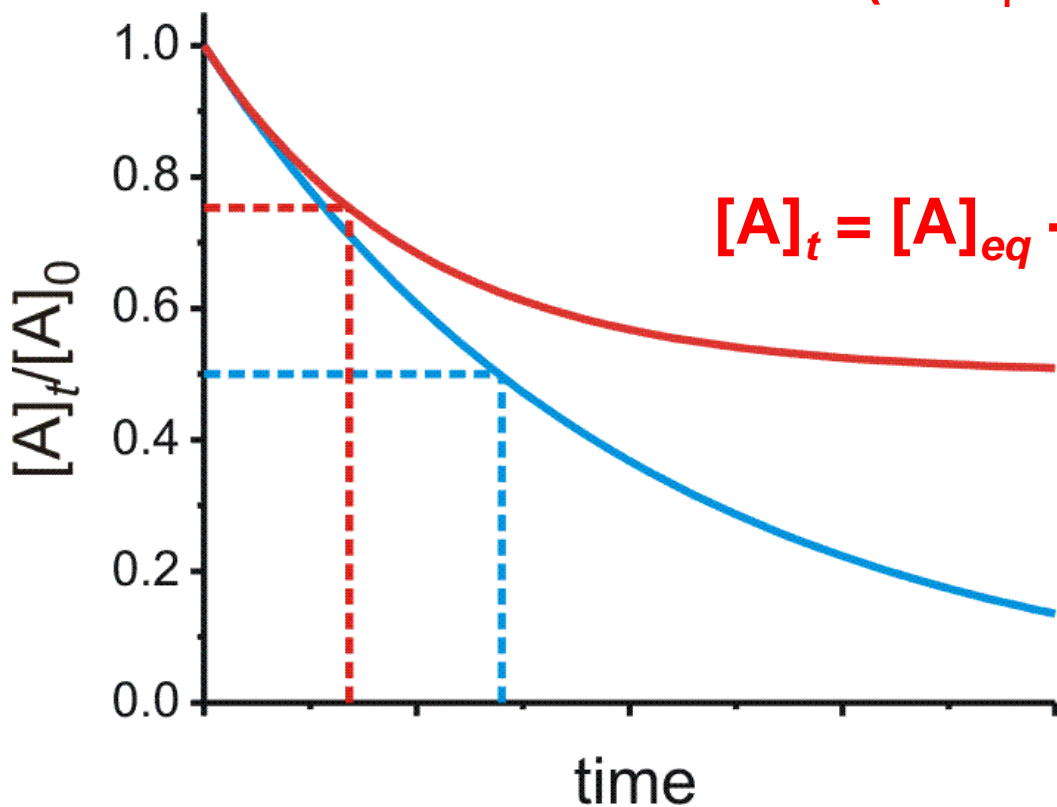


# Equilibrium Kinetics



(for  $k_1 = k_{-1}$ ,  $[A]_{eq}/[A]_0 = 0.5$ )



$$[A]_t = [A]_{eq} + ([A]_0 - [A]_{eq})e^{-(k_1 + k_{-1})t}$$

$$t_{1/2} = \frac{0.693}{k_1 + k_{-1}}$$

$$[A]_t = [A]_0 e^{-k_1 t}$$

$$t_{1/2} = \frac{0.693}{k_1}$$