$$\frac{1}{2} \frac{1}{N0} \frac{1}{N0} = k_{01} \frac{1}{N0} \frac{1}{N0} = k_{01} \frac{1}{N0} \frac{1}{N0} \frac{1}{N0} = k_{01} \frac{1}{N0} \frac{$$

Rate:
$$v_2 = (Rate)_2 = k_2 [NO_3][NO]$$

$$k_{obs} = \frac{k_1 k_2}{k_{-1}}$$
 Rate = $\frac{l_1 l_2}{l_{-1}}$ [No]² [O₂]

$$(HW) = 3$$
 Same mechanism using SSA for [NO]
 $\frac{d[NO]}{dt} = ? \approx 0$ | SS

Hech #2

$$\frac{d\left[N_{2}O_{2}\right]}{dt} = k_{1}\left[N_{0}\right]^{2} - k_{1}\left[N_{2}O_{2}\right] - k_{2}\left[N_{2}O_{2}\right]\left[O_{2}\right]$$

Rate:
$$\frac{1}{2} \frac{\int [No_1]^7}{dt} = v_2 = (Rate)_2$$

$$= \frac{k_1 k_2}{1 + k_1 [0_1]^2} [No]^2 [0_2]$$

HW) => Same mechanish using can approx

Juanneu With Ca

$$H_{2} + B_{r_{2}} \rightleftharpoons 2HBr$$

$$\frac{1}{2} \frac{1}{dt} \frac{1}{dt} = \frac{k \left[H_{2} \right] \left[B_{r_{2}}\right]^{1/2}}{\frac{1}{2} \left[1 + k' \left[HBr\right] \left[B_{r_{2}}\right]^{-1}\right]} \frac{E_{x peri-1}}{\frac{hent}{2}}$$

$$H - H : Difficult to break$$

$$g_{\tau} - g_{\tau} : E_{ssy} \text{ to } b_{reck}$$

$$B_{r_{2}} + M \qquad \frac{k_{1}}{dt} \Rightarrow 2 \xrightarrow{g_{\tau}} + M \qquad Initiation$$

$$2 \xrightarrow{g_{\tau}} + H_{2} \qquad \frac{k_{2}}{dt} \Rightarrow HBr + \frac{H}{Rr}$$

$$3 \xrightarrow{g_{\tau}} + H_{2} \qquad \frac{k_{2}}{dt} \Rightarrow HBr + \frac{H}{Rr}$$

$$HBr + \frac{H}{Rr} \Rightarrow H_{2} + \frac{H}{Rr} \Rightarrow H_{2} + \frac{H}{Rr}$$

$$HBr + \frac{H}{Rr} \Rightarrow H_{2} + \frac{H}{Rr} \Rightarrow H_{2} + \frac{H}{Rr} \Rightarrow H_{3} + \frac{H}{Rr} \Rightarrow H_{4} + \frac{H}{Rr} \Rightarrow H_{5} + \frac{H}{Rr} \Rightarrow H_{5$$

$$R_{a+c} = \frac{1}{2} \frac{d \frac{[H_{B}, I]}{dt}}{dt}$$

$$= \frac{1}{2} \left\{ \frac{1}{2} \left[\frac{G_{1}}{G_{1}} \right] \left[\frac{H_{2}}{I} \right] + \frac{1}{2} \left[\frac{H_{2}}{I} \right] \left[\frac{H_{2}}{I} \right] - \frac{1}{2} \left[\frac{H_{2}}{I} \right] \left[\frac{H_{2}}{I} \right] \right]$$

$$= \frac{1}{2} \times \left[\frac{1}{2} \right] \times \left\{ \frac{1}{2} \left[\frac{H_{2}}{I} \right] + \frac{1}{2} \frac{1}{2} \frac{1}{2} \left[\frac{H_{2}}{I} \right] \left[\frac{H_{2}}{I} \right] \right]$$

$$= \frac{1}{2} \times \left[\frac{1}{2} \right] \times \left[\frac{1}{2} \right] \times \left[\frac{1}{2} \right] \times \left[\frac{1}{2} \right] \times \left[\frac{1}{2} \right]$$

$$= \frac{1}{2} \times \left[\frac{1}{2} \left[\frac{H_{2}}{I} \right] \times \left[\frac{H_{2}}{I} \right] \left[\frac{H_{2}}{I} \right] \left[\frac{H_{2}}{I} \right] \right] \times \left[\frac{H_{2}}{I} \right] \times \left$$