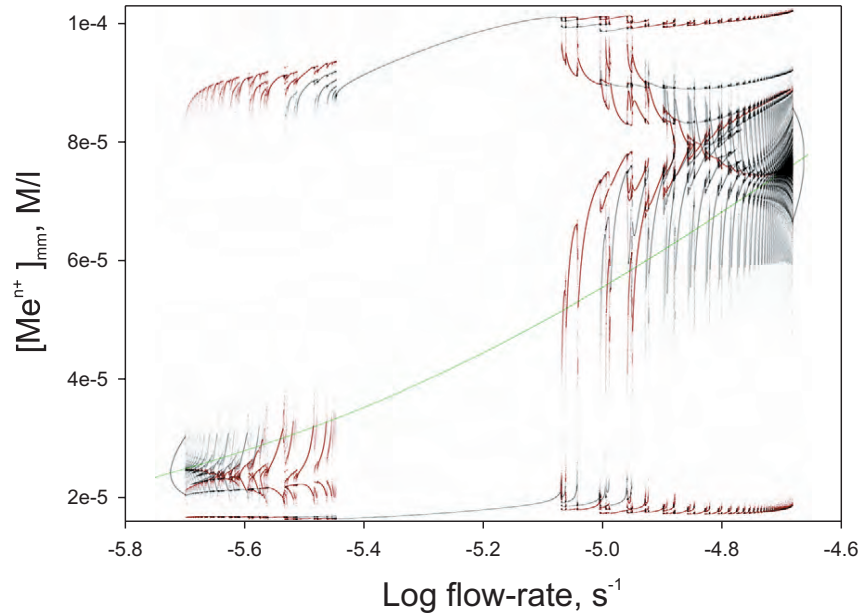
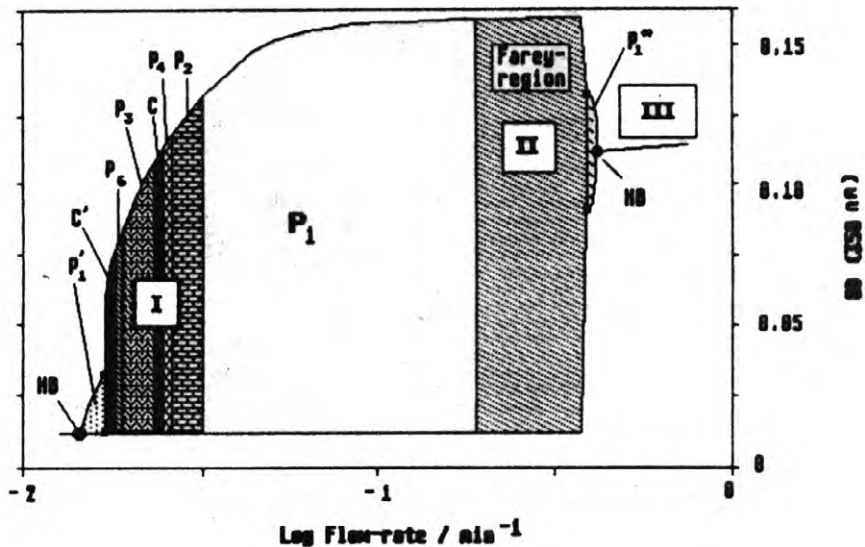


Bifurcation diagram of the Belousov-Zhabotinsky reaction model calculated by BZ15Exp

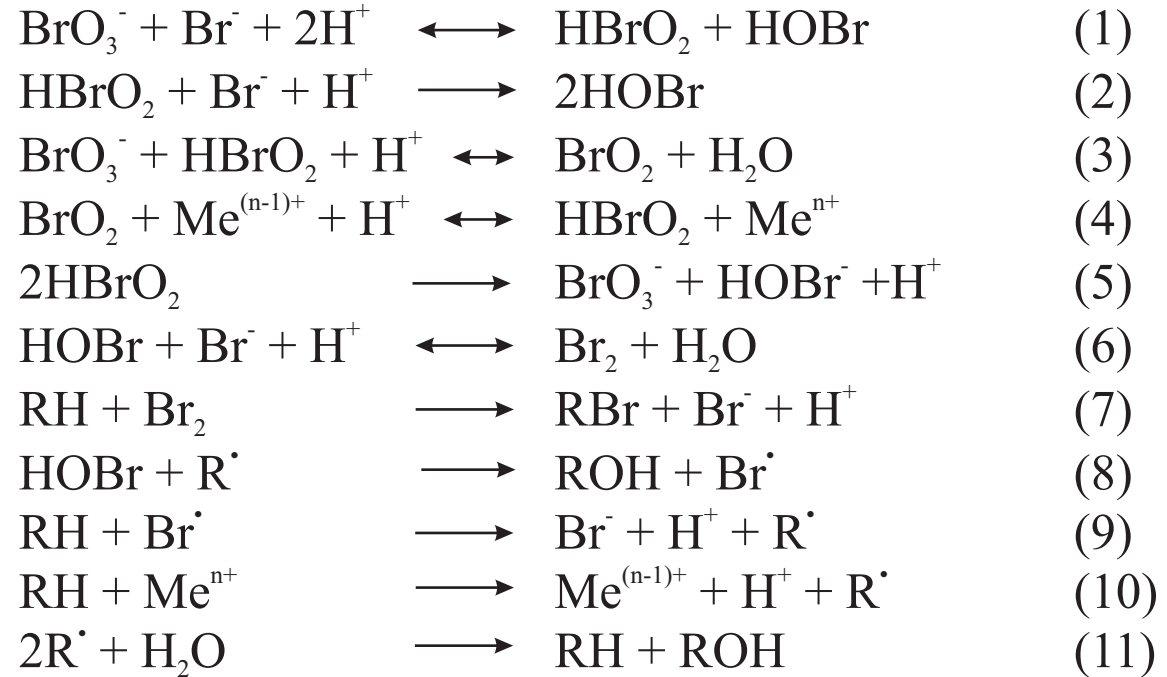


Experimental bifurcation diagram of the Belousov-Zhabotinsky reaction



F.W. Schneider, A.F. Munster. *J. Phys. Chem.*, 1991, 95, 2130-2138

The 15-stage model of the Belousov-Zhabotinsky reaction



$$\begin{aligned} k_1 &= 2.1 \\ k_2 &= 3.0 \cdot 10^6 \\ k_3 &= 42 \\ k_4 &= 8.0 \cdot 10^4 \\ k_5 &= 3.0 \cdot 10^3 \\ k_6 &= 8.0 \cdot 10^9 \\ k_7 &= 4.6 \cdot 10^{-3} \\ k_8 &= 10^5 \dots 10^{11} \\ k_9 &= 1.0 \cdot 10^6 \\ k_{10} &= 0.2 \\ k_{11} &= 3.2 \cdot 10^9 \end{aligned}$$

$$\begin{aligned} k_{-1} &= 1.0 \cdot 10^4 \\ k_{-3} &= 4.2 \cdot 10^7 \\ k_{-4} &= 8.9 \cdot 10^3 \\ k_{-6} &= 1.1 \cdot 10^2 \end{aligned}$$

$$\begin{aligned} [\text{BrO}_3^-]_0 &= 0.08 \text{ M} \\ [\text{Me}^{n+}]_0 &= 5 \cdot 10^{-7} \text{ M} \\ [\text{RH}]_0 &= 0.2 \text{ M} \end{aligned}$$