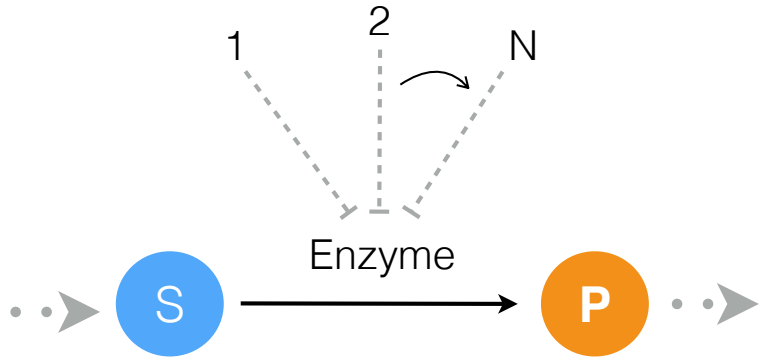
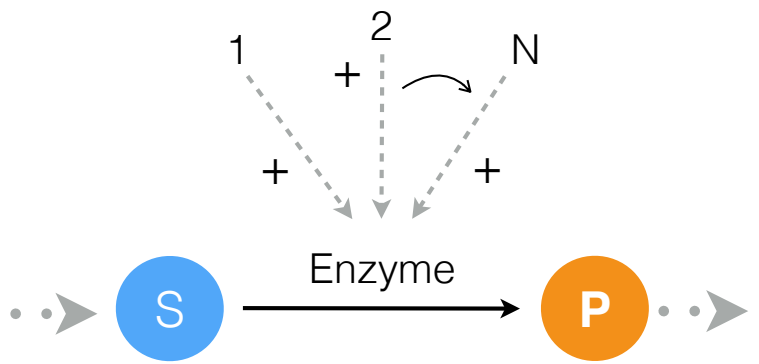
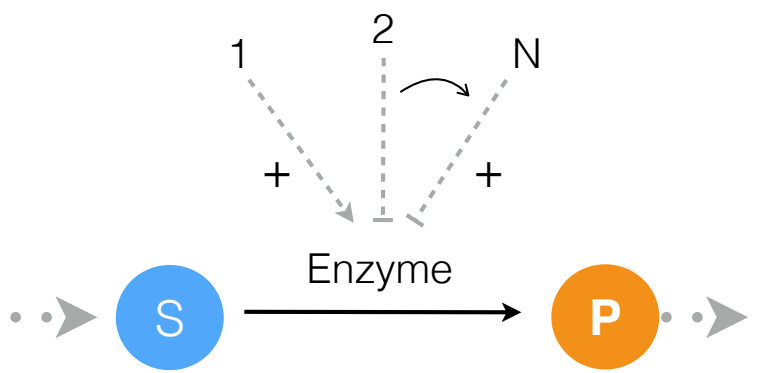


$$0 \leq f_j\left(\mathcal{Z}, \mathbf{k}\right) \leq 1$$

OR $$v = 1 - \max\left\{f_1\left(\mathcal{Z}, \mathbf{k}\right), f_2\left(\mathcal{Z}, \mathbf{k}\right), \ldots, f_N\left(\mathcal{Z}, \mathbf{k}\right)\right\}$$



OR $$v = \max\left\{f_1\left(\mathcal{Z}, \mathbf{k}\right), f_2\left(\mathcal{Z}, \mathbf{k}\right), \ldots, f_N\left(\mathcal{Z}, \mathbf{k}\right)\right\}$$



AND $$v = \min\left\{u, d\right\}$$

$$u = \max_{f^+}\left\{f_1\left(\mathcal{Z}, \mathbf{k}\right), f_2\left(\mathcal{Z}, \mathbf{k}\right), \ldots, f_{\mathcal{U}}\left(\mathcal{Z}, \mathbf{k}\right)\right\}$$

$$d = 1 - \max_{f^-}\left\{f_1\left(\mathcal{Z}, \mathbf{k}\right), f_2\left(\mathcal{Z}, \mathbf{k}\right), \ldots, f_{\mathcal{D}}\left(\mathcal{Z}, \mathbf{k}\right)\right\}$$