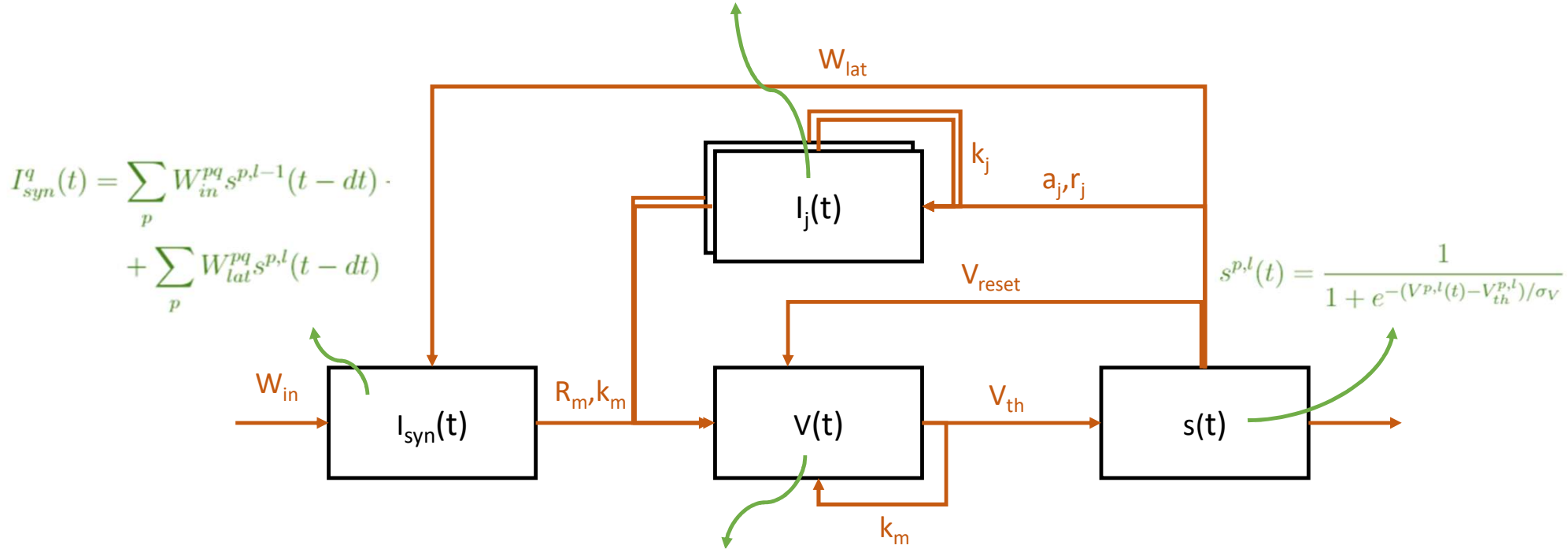


$$I_j^{p,l}(t) = I_j^{p,l}(t - dt)(1 - k_j^{p,l} dt) + (a_j^{p,l} + r_j^{p,l} I_j^{p,l}(t - dt)) \frac{1}{\tau} s^{p,l}(t - dt) dt$$



$$V^{p,l}(t) = V^{p,l}(t - dt)(1 - k_m^{p,l} dt) + R_m^{p,l} k_m^{p,l} \left( I_0^{p,l} + I_{syn}^{p,l}(t) + \sum_j I_j^{p,l}(t) \right) dt - \frac{1}{\tau} s^{p,l}(t) dt (V^{p,l}(t - dt) - V_{reset})$$