$$\tau_m \frac{dV_i}{dt} = V_{rest} - V_i + R_m I_{syn}$$

$$I_{syn} = \frac{1}{R_m} \sum_j w_{ji} Y_{ji} (V_{rev} - V_i)$$

Membrane
leak time
$$\tau_{m} \frac{dV_{i}}{dt} = V_{rest} - V_{i} + R_{m}I_{syn}$$

$$I_{syn} = \frac{1}{R_{m}} \sum_{j} w_{ji} Y_{ji} (V_{rev} - V_{i})$$









