```
1
2
??
                                        \begin{array}{c} ??\\ input[]().\\ \mathbf{S1}\\ 5\times\\ 4 \end{array}
                                        \begin{array}{c} \pi/8 \\ \pi/4 + \\ \pi/8 \\ \pi/2 + \\ \pi/8 \\ 3\pi/4 + \\ \pi/8 \\ 100\% \\ 50\% \\ 25\% \\ 72\times \\ 72\times \\ 636 \\ 511\times \\ 112\times \\ 522 \\ \end{array}
                                              \{ \Delta w_{ij} = a^+ w_{ij} (1 - w_{ij}) if \quad t_j - t_i \le 0 \Delta w_{ij} = a^- w_{ij} (1 - w_{ij}) if \quad t_j - t_i > 0 \}
                                      \begin{array}{c} i\\ j\\ t_i\\ \Delta\\ w_{ij}\\ i\\ a^+\\ a^-\\ t_i^-\\ t_j^-\\ t_j^-\\ F_s\\ 8\end{array}
                                        \begin{array}{c} 8\\ 0.15\\ 0.05\\ 0.8\\ 0.05\\ 44\\ -3/4\times Ap\\ 0.25\\ ??\\ 83\%\\ 1715\\ \end{array}
                                      775
1735
10306580100
51020
2
3
10
2
2
7
 \tau_m \frac{dV_n}{dt} 
 (2) \tau_m = 0 
 30ms = 0 
 R_m = 0 
 1M\Omega 
 I_{inject} = 0 
 13.5pA 
 I_{poise} 
 V_m = 0 
 V_m = 0 

                                            \tau_m \frac{dV_m}{dt} = -(V_m - v_{rest}) + R_m (I_{syn} + I_{inject} + I_{noise})
                                                    V_m \ 13.5 mV \ V_m \ V
                                              V_m
15mV
13.5mV
```

$$A_{k} = w.u.R_{k}u_{k} = U + u_{k-1}(1 - U)\exp(-\Delta_{k-1}/F)R_{k} = 1 + (R_{k-1} - u_{k-1}R_{k-1} - 1)\exp(-\Delta_{k-1}/F)$$
(3)
$$A_{k}$$

$$A_{k}$$