w_{ij}

$$S_i(t+\Delta t) = \text{signo}\left(h_i(t)\right)$$

$$= \text{signo}\left(\underbrace{\sum_{j\neq i}^{N} w_{ij} S_j(t)}_{h_i(t)}\right)$$

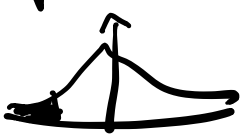
$S_i(t) = \xi_i^\nu$

↓

$$h_i^\nu = \sum_{j\neq i}^{N} \sum_{\mu=1}^{p} \frac{1}{N} \xi_i^\mu \xi_j^\mu \xi_j^\nu$$

$$= \frac{1}{N} \sum_{\mu=1}^{p} \xi_i^\mu \sum_{j\neq i}^{N} \xi_j^\mu \xi_j^\nu$$

p



$$= \frac{1}{N} \xi_i^\nu \underbrace{\sum_{j\neq i}^{N} \xi_j^\nu \xi_j^\nu} + \frac{1}{N} \sum_{\mu\neq\nu}^{p} \xi_i^\mu \sum_{j=1}^{N} \xi_i^\mu \xi_j^\nu$$

$$= \xi_i^\nu \frac{1}{N}(N-1) + \frac{1}{N} \sum_{\mu\neq\nu}^{p} \xi_i^\mu \sum_{j=1}^{N} \xi_j^\mu \xi_j^\nu$$

$$= \xi_i^\nu + \text{crosstalk}$$

$$\overline{\langle \xi_i^\mu \xi_j^\nu \rangle} = \overline{\frac{1}{N} \sum_{j=1}^{N} \xi_j^\mu \xi_j^\nu}$$ → promedio sobre μ, ν

$$= a$$

Se define $W_{ij} = \frac{1}{N} \sum_{\mu=1}^{p} (\xi_i^\mu - a)(\xi_j^\mu - a)$