

	Model A	Model B	Model C
Lagrangian functions	$L_h = \sum_{\mu=1}^{N_h} F(h_\mu)$ $L_x = \sum_{i=1}^{N_f}  x_i $	$L_h = \log \left( \sum_{\mu=1}^{N_h} e^{h_\mu} \right)$ $L_x = \frac{1}{2} \sum_{i=1}^{N_f} x_i^2$	$L_h = \sum_{\mu=1}^{N_h} F(h_\mu)$ $L_x = \sqrt{\sum_{i=1}^{N_f} x_i^2}$
energy	$E = - \sum_{\mu=1}^{N_h} F \left( \sum_{i=1}^{N_f} \xi_{\mu i} V_i \right)$	$E = \frac{1}{2} \sum_{i=1}^{N_f} x_i^2 - \log \left( \sum_{\mu=1}^{N_h} \exp \left( \sum_{i=1}^{N_f} \xi_{\mu i} x_i \right) \right)$	$E = - \sum_{\mu=1}^{N_h} F \left( \sum_{i=1}^{N_f} \xi_{\mu i} \frac{x_i}{\sqrt{\sum_j x_j^2}} \right)$
effective update rule	$\tau \frac{dx_i}{dt} = \sum_{\mu=1}^{N_h} \xi_{i\mu} f \left( \sum_{j=1}^{N_f} \xi_{\mu j} V_j \right) - x_i$	$\tau \frac{dx_i}{dt} = \sum_{\mu=1}^{N_h} \xi_{i\mu} \text{softmax} \left( \sum_{j=1}^{N_f} \xi_{\mu j} x_j \right) - x_i$	$\tau \frac{dx_i}{dt} = \sum_{\mu=1}^{N_h} \xi_{i\mu} f \left[ \sum_{j=1}^{N_f} \xi_{\mu j} \frac{x_j}{\sqrt{\sum_k x_k^2}} \right] - x_i$