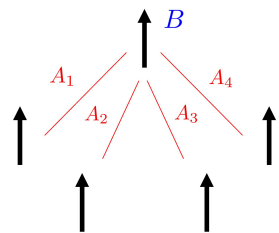


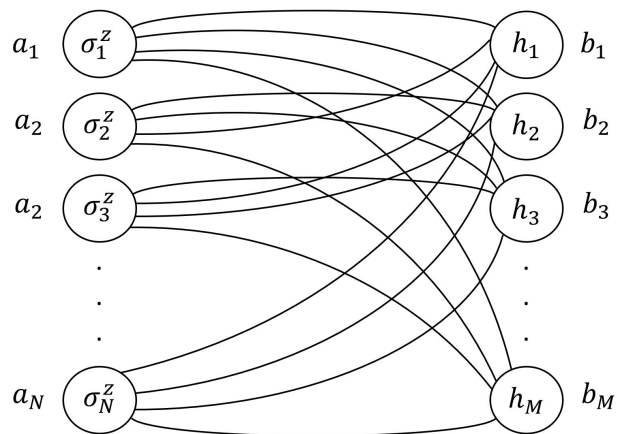
Machine Learning of the Central Spin Model



$$H = BS_0^z + \sum_{k=1}^{N-1} A_k \mathbf{S}_0 \cdot \mathbf{S}_k$$

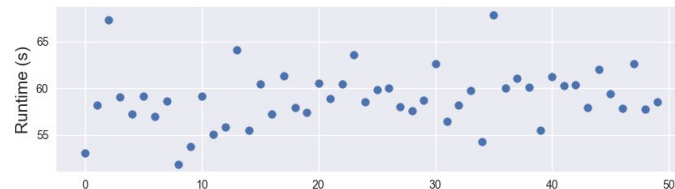
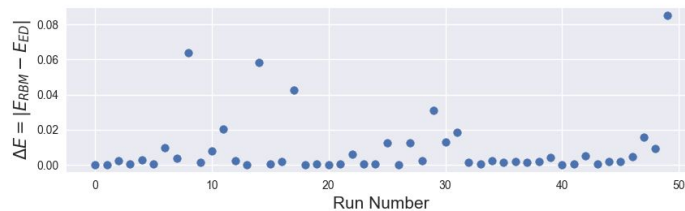
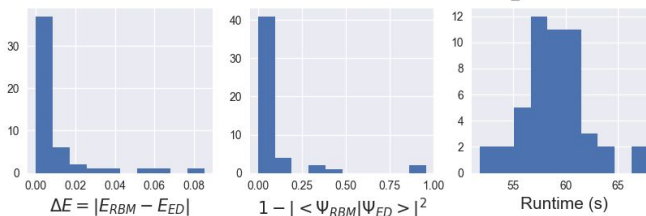
Visible Layer

Hidden Layer

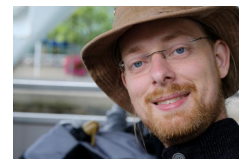


Central Spin with $A_k = \frac{A}{N_0} e^{-k/N_0}$

$N = 5, M = 5, B = 1, A = 1, N_0 = \frac{N}{2}$



Alev Orfi



Felix Fehse