$|\,\downarrow\,\uparrow\,\uparrow\,\downarrow\,\downarrow\,\uparrow\,\rangle$

target state ψ_{target}

1.) Measure a few samples.

2.) Choose a *reference* measurement configuration.

00110100101
011010011010
110100100111

XXXXXXXXX

3.) Train n_{RBM} RBMs.

reconstructed state ψ_{AL}

Measure in requested configuration.

XXYYXXZZX

4.) *Query-by-Commitee*: Decide which measurement configuration is most informative.