Brayden's Diagrams

Brayden Ware

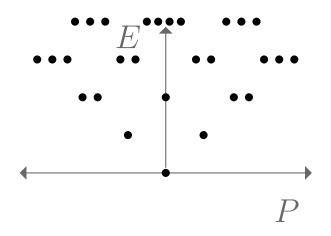
September 30th 2014

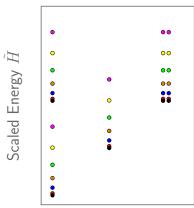
Outline

1 Diagrams

Diagrams



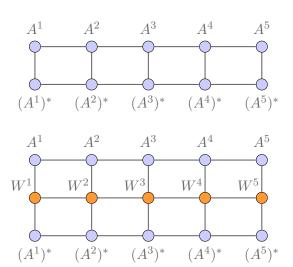


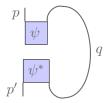


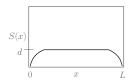
P (in units of $\frac{2\pi}{L}$)

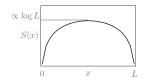


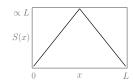
$$\begin{array}{c|cccc}
p & \uparrow & \uparrow q & p & \uparrow & \uparrow q \\
\hline
\psi & & = & \psi_L & \downarrow & \psi_R
\end{array}$$

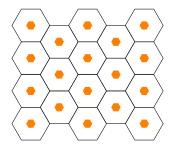


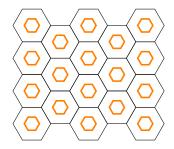


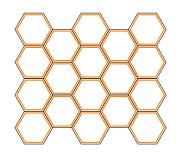


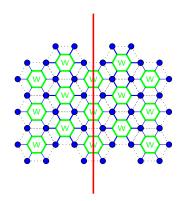


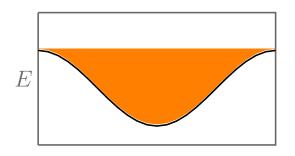


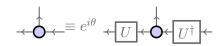




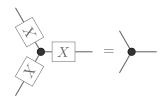


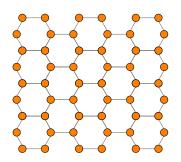


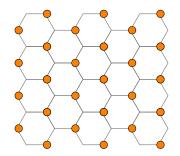


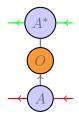


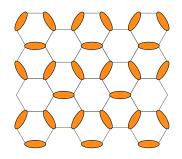
$$|GHZ\rangle = |000\rangle + |111\rangle$$

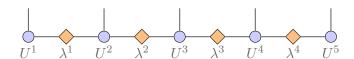


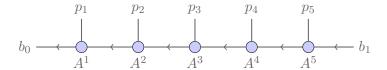




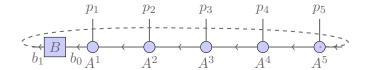


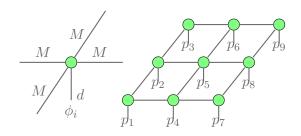






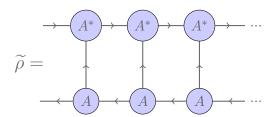
$$\begin{array}{c|c} p_1 \uparrow p_2 \uparrow p_3 \uparrow & p_1 \uparrow & p_2 \uparrow & \uparrow p_3 \\ \hline \psi & = U_1 & i_1 & U_2 & \downarrow \psi'' \end{array}$$

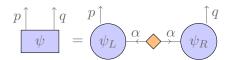




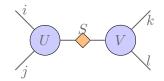
$$\begin{array}{ccc}
p \uparrow & \uparrow q & p \uparrow & \uparrow q \\
\hline
\psi & = & \psi_L & \psi_R
\end{array}$$

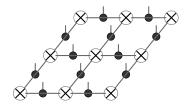
$$i_1 \stackrel{i_2}{\smile} \stackrel{i_3}{\smile} \cdots \stackrel{o_1}{\smile} o_2 o_3$$
 $|\psi\rangle = \sum \psi_{i_1 i_2 ... o_1 o_2 ...} |o_1 o_2 ... \rangle \langle i_1 i_2 ...|$













$$|W\rangle = |001\rangle + |010\rangle + |100\rangle$$

