[2.2]
$$|i\rangle = \frac{1}{12} |u\rangle + \frac{1}{12} |d\rangle$$
 $|z| = |z| |u| = |z| + |z| = |z| = |z| = |z| + |z| = |z| = |z| = |z| + |z| = |z| =$

(そいは一人はよくないンナをロンラ

 $=\left(\frac{1}{2}+\frac{1}{2}\right)\left(\frac{1}{2}-\frac{1}{2}\right)=\frac{1}{2}+\frac{1}{4}=\frac{1}{2}$