

$$|0\rangle \text{ --- } \text{red blob} \text{ --- } s_1 \qquad s_1 + s_2 = 1$$

$$|1\rangle \text{ --- } s_2$$

$$|0\rangle \text{ --- } \boxed{U} \text{ --- } s_3 \qquad s_3 + s_4 = 1$$

$$|1\rangle \text{ --- } \text{red blob} \text{ --- } \boxed{U} \text{ --- } s_4$$

$$|0\rangle \text{ --- } s_5$$

$$s_5 + s_6 = 1$$

$$|1\rangle \text{ --- } \text{red blob} \text{ --- } s_6$$