

$$(|0\rangle_c + |1\rangle_c) | \text{ellipsoid} \rangle \rightarrow$$

$$|0\rangle_c \left| \text{cylinder with disjoint blue and red loops} \right\rangle + |1\rangle_c \left| \text{cylinder with linked blue and red loops} \right\rangle =$$

$$(|0\rangle_c + \tilde{S}_{ab} |1\rangle_c) | \text{ellipsoid} \rangle ,$$

$$| \text{ellipsoid} \rangle = |\text{G.S.}\rangle$$