



Unitary $U : \mathcal{H}_a \otimes \mathcal{H}_e \mapsto \mathcal{H}_b \otimes \mathcal{H}_c$
 defines an isometry $J : \mathcal{H}_a \mapsto \mathcal{H}_b \otimes \mathcal{H}_c$
 with $J|\psi\rangle = U|\psi\rangle \otimes |e_0\rangle$