## Unitary orbit preservers Edward Poon

Given an operator A acting on a Hilbert space  $\mathcal{H}$  and a group G of unitary operators on  $\mathcal{H}$ , the unitary orbit of A under G is  $\{UAU^*:U\in G\}$ . We discuss the problem of characterizing the linear maps which leave this orbit invariant for various choices of A and G.