## HARMONY ZHAN, Worcester Polytechnic Institute

Laziness of quantum walks

The trace of the average mixing matrix measures the laziness of a quantum walk: the larger trace, the more likely that the walker stays at home in the long run. We will explore the combinatorial aspects of this graph invariant, and identify the laziest walkers in some families of graphs. This is joint work with Amulya Mohan, Christino Tamon and Yichi Xu.