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Pretty good state transfer on cycles

H. Pal and B. Bhattacharjya have proved, using the adjacency matrix, that the continuous-time quantum walk of a cycle C_n admits pretty good state transfer if and only if $n = 2^k$.

The exponential distance matrix of a graph is defined entry-wise by letting the (u, v)-entry be $q^{dist(u,v)}$ for some parameter q. Using exponential distance matrix as the Hamiltonian of the walk, we show that all the even cycles admit pretty good state transfer.