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Christino Tamon* (tino@clarkson.edu), Department of Computer Science, Clarkson University, 8 Clarkson Avenue, Potsdam, NY 13699-5815. *Is quantum state transfer monogamous?*

Given a graph with adjacency matrix A , if a continuous-time quantum walk matrix $\exp(-itA)$ sends the characteristic vector of a vertex to the characteristic vector of another vertex, we say perfect state transfer occurs between the two vertices. We consider the possibility for a vertex to be involved in perfect state transfer with two other distinct vertices. In this talk, we survey what is known about this question and describe some recent observations. (Received September 13, 2018)