1153-81-129 **Kari Eifler*** (keifler@math.tamu.edu). *Non-local Games and the Graph Isomorphism Game.*

Non-local games give us a way of observing quantum behaviour through the observation of only classical data, and there are several different mathematical models to consider. The graph isomorphism game is important in quantum information theory and is an example of a non-local game. We show that the *-algebraic, C^*-algebraic, and quantum commuting (qc) notions of a quantum isomorphism between classical graphs X and Y are all equivalent. This is based on joint work with M. Brannan, A. Chirvasitu, S. Harris, V. Paulsen, X. Su, and M. Wasilewski. (Received August 22, 2019)