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Quantum Mycielski graphs

Mycielskian of a graph $G = (V, E)$ is a graph $M(G)$ with vertex space containing two copies of V and a singleton; the edge space of $M(G)$ is chosen in a way that chromatic number of $M(G)$ is one larger than the chromatic number of G and clique numbers of G and $M(G)$ are the same. In my talk I will discuss Mycielski construction for quantum graphs and discuss the behaviour of chromatic and clique number in this case. Joint work with Arek Bochniak.