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A forcing dichotomy for closed graphs on Polish spaces

We show that a closed graph on a Polish space without large cliques has a small weak Borel chromatic number in some forcing extension of the universe. Here the weak Borel chromatic number of a graph is the least size of a partition of the vertex set into Borel sets that contain at most one vertex of every edge of the graph.

This is joint work with Ben Miller and Clinton Conley.