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Doppelgänger Placement Games

To each strong placement game G played on a fixed board B one can assign two simplicial complexes, one of which is the legal complex $\Delta_{G,B}$. Two strong placement games G_1 and G_2 are called Doppelgänger on the board B if their legal complexes $\Delta_{G_1,B}$ and $\Delta_{G_2,B}$ are isomorphic up to relabeling of their vertices. Surprisingly, Col and Snort are Doppelgänger on any bipartite graph. The map going from one to the other is called the bipartite flip, and we will demonstrate that this map also extends to distance games.