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Flexibility of polyhedral embeddings of graphs on a surface

Abstract for the joint Combinatorics and Geometry/Topology Seminars April 22, 1999 at 2:50

The following theorem has been established in joint work with Bojan Mohar. Given a surface S , there is an integer $f(S)$ such that any 3-connected graph G admits at most $f(S)$ combinatorially distinct 3-representative embeddings into S . In such an embedding all the facial boundaries are simple cycles, and distinct facial cycles meet at most in an edge or vertex. Two such embeddings of G are distinct if their facial cycles differ. Thus, for the 2-sphere $f(S) = 1$, but already the 7-clique has 60 3-representative embeddings on the torus. This talk will discuss the proof of the theorem.

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Last update: **2020/01/29 19:03**