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(joint work with Carsten Thomassen and Adel Alahmadi)

Title: Cycles in 5-connected planar triangulations

Abstract

We consider the natural question of how many cycles must be present in a graph with p vertices and q edges. After examining the cubic graph case, we will switch attention to 5-connected planar triangulations. Without going into too many details we will look at showing that these graphs have exponentially many Hamiltonian cycles.