

ON THE AVERAGE GENUS AND THE MAXIMUM GENUS OF A GRAPH

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(This talk is based on joint work with Xin Chen and Jinlian Zhang.)

Let G be a connected graph. In 1995, Chen, Gross and Rieper established that every graph with maximum degree at most 3 has average genus at least half its maximum genus. In this talk, we prove that the average genus of an arbitrary connected graph G is at least one-third of its maximum genus.