Balanced subdivisions of a large clique in graphs with high average degree

Yan Wang
Shanghai Jiaotong University

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Abstract: In 1984, Thomassen conjectured that for every constant $k \in \mathbb{N}$, there exists d such that every graph with average degree at least d contains a subdivision of a complete graph on k vertices in which each edge is subdivided the same number of times. Recently, Liu and Montgomery confirmed Thomassen's conjecture. In this talk, we show that for sufficiently large d, every n-vertex graph with average degree at least d contains a subdivision of a complete graph of size at least $\Omega(d^{1/2}/\log^{10} n)$ in which each edge is subdivided the same number of times.