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

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**Time:** Nov. 1st, 14:00 - 15:00  
**Zoom meeting ID:** 874 4906 5937  
**Password:** 121323  
**Link:** [https://zoom.com.cn/j/87449065937](https://zoom.com.cn/j/87449065937)

**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.