

Decomposing Planar Graphs Under Degree Restriction

Boram Park
Ajou University

Time: July 22nd, 10:00 - 11:00

Zoom meeting ID: 87420082068 Password: 121323

Link: <https://zoom.com.cn/j/87420082068>

Abstract: Given a graph G , a decomposition of G is a partition of its edges. A graph is (d, h) -decomposable if its edge set can be partitioned into a d -degenerate graph and a graph with maximum degree at most h . For $d \leq 4$, we are interested in the minimum integer h_d such that every planar graph is (d, h_d) -decomposable. It was known that $h_3 \leq 4$, $h_2 \leq 8$, and $h_1 = \infty$. In this talk, we present a result that $h_4 = 1$, $h_3 = 2$, and $4 \leq h_2 \leq 6$. This is a joint work with Eun-Kyung Cho, Ilkyoo Choi, Ringi Kim, Tingting Shan, Xuding Zhu.