

1133-05-183

**Xingxing Yu\***, School of Mathematics, Georgia Institute of Technology, Atlanta, GA 30332. *On Hajos' coloring conjecture.*

In the 1905s, Hajos conjectured a possible extension of the Four Color Theorem: Graphs containing no subdivision of  $K_{k+1}$  can be  $k$ -colored. This conjecture holds for  $k \leq 3$ , and fails for  $k \geq 6$ . We will discuss recent work on the case when  $k = 4$ . (Received July 25, 2017)